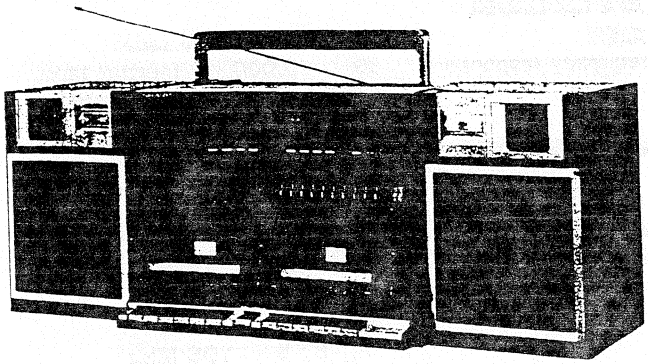
WF-939Z

SHARP SERVICE MANUAL

S3648WF939ZBK



SHARP-04627

PHOTO: WF-939Z(BK)

WF-939Z(BK)
WF-939Z(S)

In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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SHARP CORPORATION

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

GENERAL

Power source:	AC 110 V – 127 V and 220 V – 240 V, 50/60 Hz DC 15 V (UM/SUM-1 or R20 type x 10, or external 15 V DC)
Output power:	PMPO; 200 W (100 W + 100 W) (AC operation) RMS; 26 W (13 W + 13 W) (DC operation, 10% distortion)
Input impedance:	External mic; 600 ohms Phono/line in/CD; 50 kohms
Loaded impedance:	Headphones; 8 – 32 ohms External speakers; 8 – 16 ohms Line out; 0.6 V/50 kohms
Dimensions:	Width; 680 mm Height; 250 mm Depth; 180 mm
Weight:	9.3 kg without batteries

TAPE RECORDER

Tape:	Compact cassette tape
Frequency response:	30 – 15,000 Hz (normal tape) 30 – 16,000 Hz (CrO_2 tape) 30 – 17,000 Hz (metal tape)
Signal/noise ratio:	55 dB (Tape 1, playback) 50 dB (Tape 2, recording)

RADIO

Frequency range:	AM; 526.5 – 1606.5 kHz SW_1; 2.3 – 7.3 MHz SW_2; 7.3 – 22 MHz FM; 87.6 – 108 MHz

SPEAKER

Speakers:	210 cm^2 square-type flat diaphragm woofer x 2 5 cm tweeter x 2 Super tweeter x 2
Impedance:	8 ohms
Input:	26 W (RMS) 100 W (PMPO)

Specifications for this model are subject to change without prior notice.

STRINGING OF DIAL CORD

1. Turn the drum fully in the direction Ⓐ shown in Fig. 2–1 and stretch its cord over the parts in the numerical order.
2. Then turn the tuning control shaft fully in the direction Ⓑ shown in Fig. 2–1 and fix its pointer as shown in Fig. 2–1.

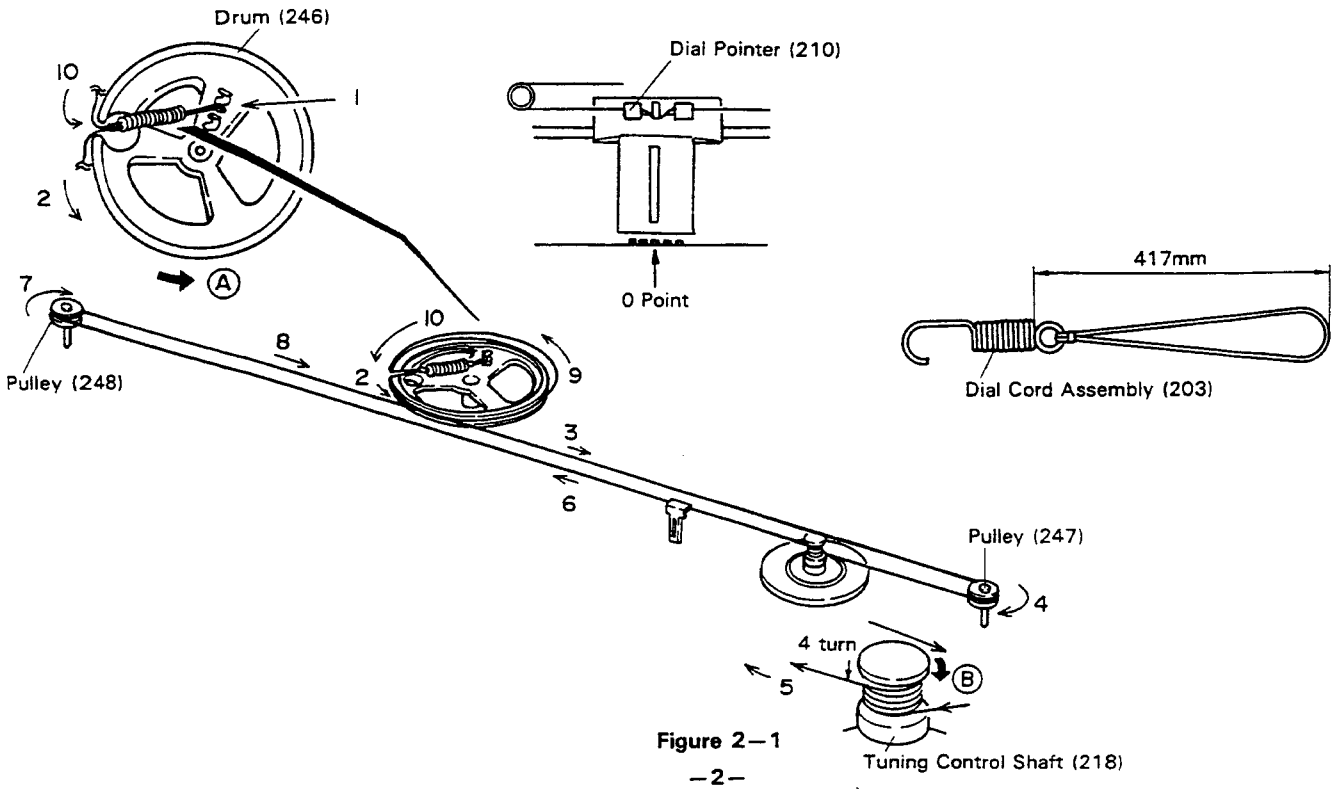


Figure 2–1

NAMES OF PARTS

1. Hour/Sleep Off Button
2. Clock Adjust Button
3. Minute Button
4. Clock/Timer Display
5. Timer Adjust Button
6. Sleep On Button
7. Tape 1) Tape Switch
8. Tape 2) Tape Switches
9. Dubbing Switch
10. Function Switches
11. Radio Band Selector
12. FM Mode Switch
13. Tuning Control
14. Fine Tuning Control
15. Timer On/Off Switch
16. Power Switch
17. Volume Controls
18. Tape Counter and Reset Button
19. Microphone Sockets
20. Headphones Socket
21. Tape 2) Direction Switch
22. Tape 2) Reverse Mode Switch
23. Graphic Equalizer
24. Tape 1) Direction Switch
25. Tape 1) Reverse Mode Switch
26. Dubbing Start Button
27. APLD/APPS Clear Button
28. APLD/APPS Set Button
29. APLD/APPS Set Indicators
30. APPS End Pause Indicator
31. FM Stereo Indicator
32. Sleep Indicator
33. Power Indicator
34. Spectrum Analyzer
35. Super Tweeter
36. Tweeter
37. Woofer
38. Cassette Compartment
39. Pause Button
40. Stop/Eject Button
41. Fast Wind Buttons
42. Play Button
43. Record Button
44. Pause Button
45. Stop/Eject Button
46. Fast Wind Buttons
47. Play Button
48. Play Button (Auto-Reverse continuing to TAPE 2)
49. Cassette Compartment
50. Speaker Release Lever
51. FM/SW_1/SW_2 Telescopic Rod Antenna
52. Line Output Sockets
53. Input Selector
54. Line Input Sockets
55. Earth Terminal
56. Beat Cancel Switch
57. External Speaker Terminals
58. Speaker Release Lever
59. AC Power Supply Socket
60. External DC Power Supply Socket
61. Timer and Main Battery Compartment

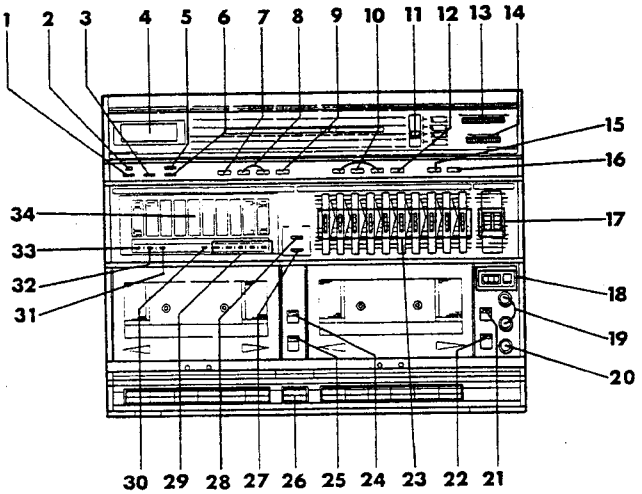


Figure 3—1

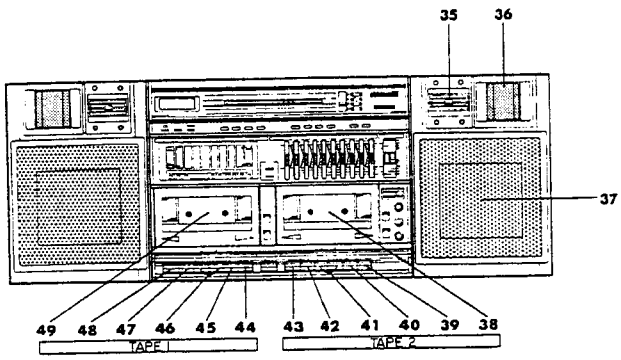


Figure 3—2

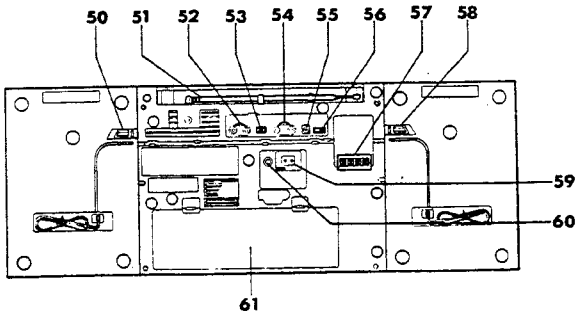


Figure 3—3

DISASSEMBLY

Caution on Disassembly
Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep its safety and excellent performance:

1. Take cassette tape out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit and remove the batteries from the unit.
3. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
Main Body Section			
1	Front panel	1. Battery compartement lid..... (A) 2. Screw..... (B)x8 3. Open the cassette holder.	4—1
2	Timer PWB	1. Screw..... (C)x1	4—2
3	Tuner frame	1. Screw..... (D)x1 2. Socket..... (E)x1	4—2
4	Mechanism block (TAPE 1, 2)	1. Tape counter drive belt... (F) 2. Screw..... (G)x4 3. Socket..... (H)x4	4—2 4—2, 3
5	Main PWB	1. Screw..... (I)x3	4—2
6	Power amp PWB	1. Screw..... (J)x1 2. Lever..... (K) 3. Screw..... (L)x2	4—3
Speaker Section			
1	Front panel	1. Screw..... (M)x5 2. Bushing..... (N)	4—4

- **Cares When Assembling**
  Push the play buttons of Tape 1 and Tape 2 mechanisms before fitting the front panel of main body, and then fit the front panel in the state that the direction knobs is set to lower side (Side B position).

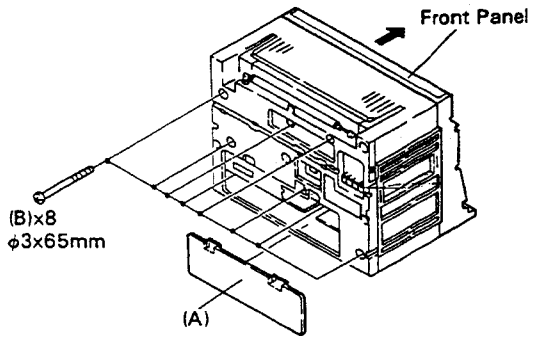


Figure 4—1

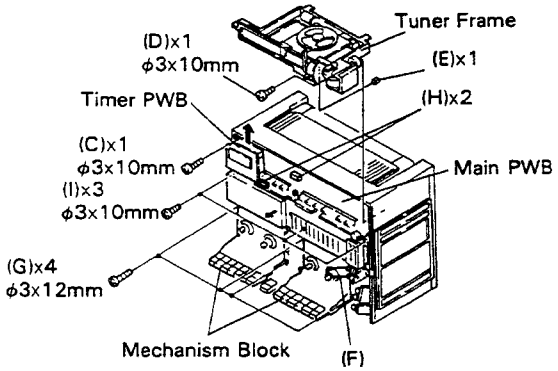


Figure 4—2

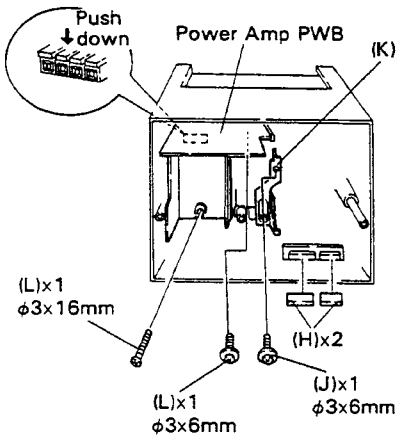


Figure 4—3

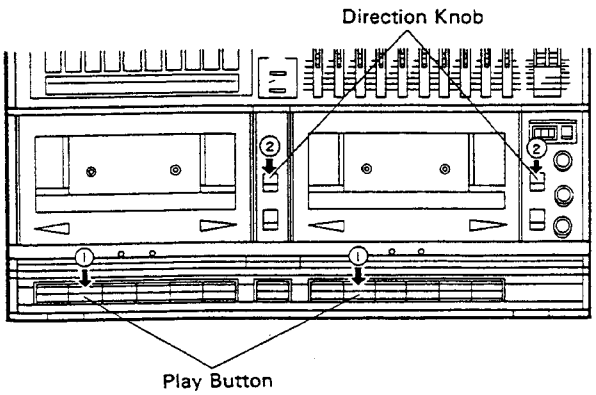


Figure 4—5

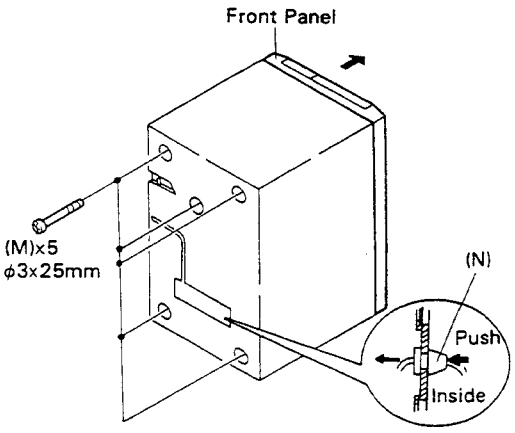


Figure 4—4

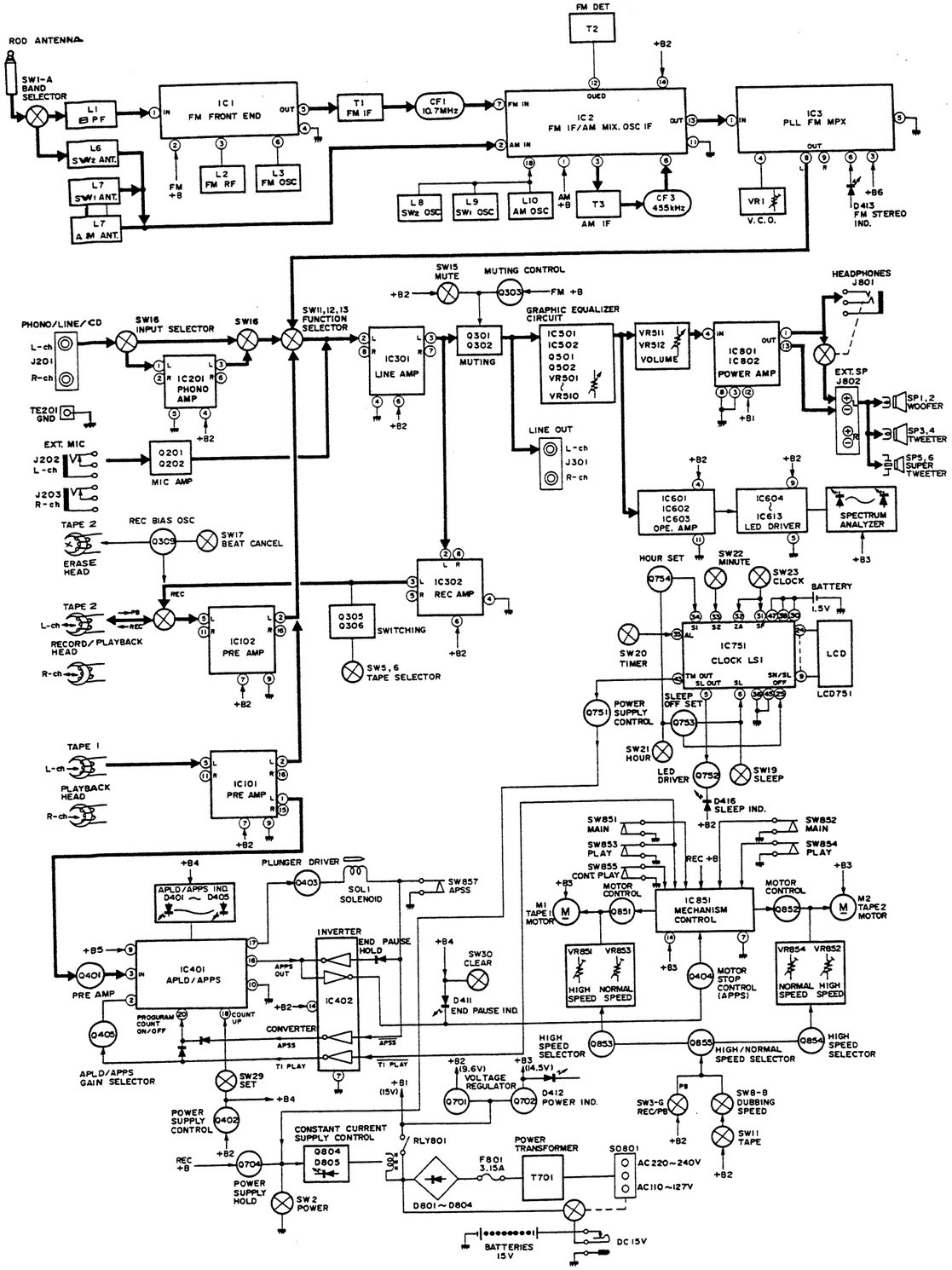


Figure 5 BLOCK DIAGRAM

MECHANICAL ADJUSTMENT

ITEM	JIG	ADJUSTMENT POINTS	REMARK (CHECK)
Driving power	Tape tension measuring cassette Play, Forward TW-2412 Play, Reverse TW-2422	—	(More than 150 g)
Torque	Torque meter Play, Forward TW-2111 Play, Reverse TW-2121 Fast-forward TW-2231 Rewind TW-2231	—	(Play, Forward: 30—60 g-cm) (Play, Reverse: 30—60 g-cm) (Fast-forward: 90—135 g-cm) (Rewind: 90—135 g-cm)
Azimuth	Test tape MTT-114	Azimuth adjusting screw	Sine waveform attains the maximum.
Tape speed	Test tape High speed MTT-111 Normal speed MTT-111	High speed Tape 1: VR851 Tape 2: VR852 Normal speed Tape 1: VR853 Tape 2: VR854 * Short TP801 and ground when performing the high speed adjustment.	High speed 6,000 ±80 Hz Normal speed 3,000 ±30 Hz

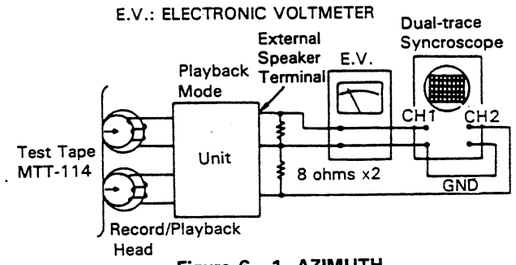


Figure 6—1 AZIMUTH

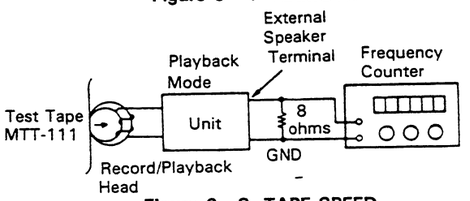


Figure 6—2 TAPE SPEED

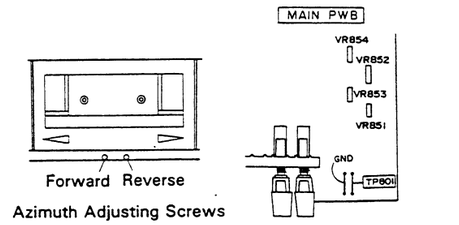


Figure 6—3 ADJUSTMENT POINTS

TEST TAPES FOR MEASUREMENT

COMPACT CASSETTE TYPE

TITLE	MODEL	FREQUENCY/ LEVEL	APPLICATION
FLUTTER	MTT-111	3 kHz, -10 dB	Tape speed, Wow and flutter check
AZIMUTH	MTT-113 MTT-113C MTT-114	6.3 kHz, -10 dB 8 kHz, -10 dB 10 kHz, -10 dB	Head azimuth adjustment
DISTORTION	MTT-118	1 kHz, -10 dB	Distortion check level adjustment
DOLBY LEVEL CALIBRATION	MTT-150	Dolby B-Type Tone 200 nwb/m	Dolby NR B-type level adjustment
BLANK	MTT-502	—	Record frequency check

TORQUE METER FOR COMPACT CASSETTE

MODEL	MEASUREMENT RANGE	APPLICATION
TW-2111	10—100 g-cm	Normal : Playback torque
	1.5—10 g-cm	Normal : Back tension
TW-2121	10—100 g-cm	Reverse : Playback torque
	1.5—10 g-cm	Reverse : Back tension
TW-2231	30—200 g-cm	Fast-forward, Rewind torque
TW-2412	0—300 g	Normal : Driving power
TW-2422	0—300 g	Reverse : Driving power

CIRCUIT ADJUSTMENT (AUDIO SECTION)

SETTING POSITION OF SWITCH AND KNOB	• Volume control: Maximum • Graphic equalizer: Center • Function selector switch: Tape • Tape selector switch: Normal • Beat cancel switch: A		
ITEM	**INPUT**	**ADJUST-MENT POINT**	**REMARKS (CHECK)**
BIAS OSCIL-LATION FRE-QUENCY	—	—	(A: 104 ± 3.5 kHz) (B: 98 ± 3 kHz) (C: 99.5 ± 3.5 kHz)
ERASE CURRENT	—	—	(Normal: 45 ± 20 mV)
PLAYBACK AMPLIFIER SENSITIVITY	Test tape MTT-118	—	(3.0 V ± 3 dB)
CLOCK REFERENCE FREQUENCY	—	TC751	32.768 kHz ± 0.15 Hz

E.V.: ELECTRONIC VOLTMETER

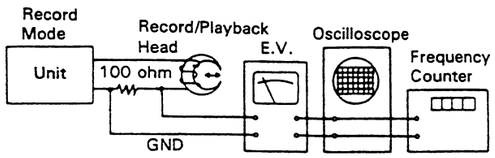


Figure 7—1 BIAS OSCILLATION FREQUENCY

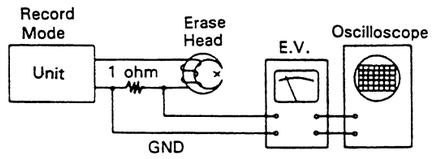


Figure 7—2 ERASE CURRENT

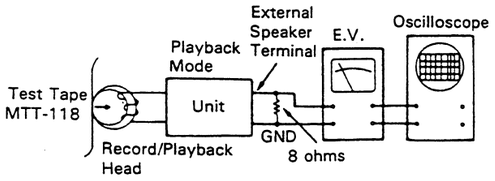


Figure 7—3 PLAYBACK AMPLIFIER SENSITIVITY

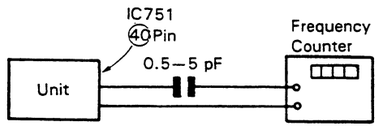


Figure 7—4 CLOCK REFERENCE FREQUENCY

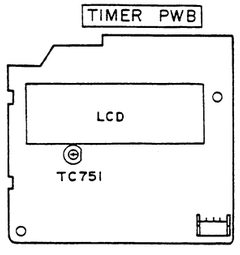


Figure 7—5 ADJUSTMENT POINT

CIRCUIT ADJUSTMENT (TUNER SECTION)

AM IF/RF ADJUSTMENT

SWITCH POSITION	Function Selector: Radio Volume Control: Maximum				
SIGNAL GENERATOR	400 Hz, 30%, AM modulated				
STEP	**TEST STAGE**	**FRE-QUENCY**	**DIAL POINTER SETTING**	**AD-JUST-MENT**	**REMARKS**
AM IF					
1	IF	455 kHz	High frequency	T3	Adjust for best "IF" curve.
AM RF					
2	Band coverage	510 kHz	Lowest frequency	L10	Adjust for maximal output.
3		1,650 kHz	Highest frequency	TC8	
4	Repeat steps 2 and 3 until no further improvement can be made.				
5	Tracking	600 kHz	600 kHz	L7	Adjust for maximal output.
6		1,400 kHz	1,400 kHz	TC5	
7	Repeat steps 5 and 6 until no further improvement can be made.				
SW_1 RF					
8	Band coverage	2.25 MHz	Lowest frequency	L9	Adjust for maximal output.
9		7.4 MHz	Highest frequency	TC7	
10	Repeat steps 8 and 9 until no further improvement can be made.				
11	Tracking	2.6 MHz	2.6 MHz	L7	Adjust for maximal output.
12		6.0 MHz	6.0 MHz	TC4	
13	Repeat steps 11 and 12 until no further improvement can be made.				
SW_2 RF					
14	Band coverage	7.2 MHz	Lowest frequency	L8	Adjust for maximal output.
15		22.5 MHz	Highest frequency	TC6	
16	Repeat steps 14 and 15 until no further improvement can be made.				
17	Tracking	8.5 MHz	8.5 MHz	L6	Adjust for maximal output.
18		19 MHz	19 MHz	TC3	
19	Repeat steps 17 and 18 until no further improvement can be made.				

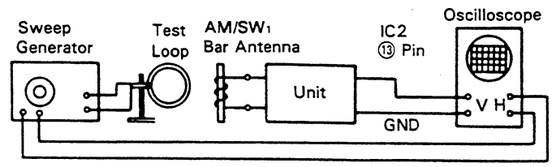


Figure 8—1 AM IF

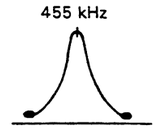


Figure 8—2 AM IF CURVE

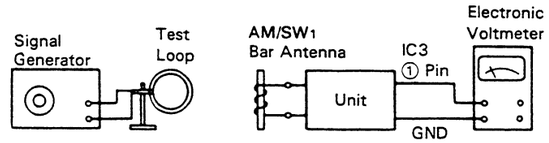


Figure 8—3 AM RF

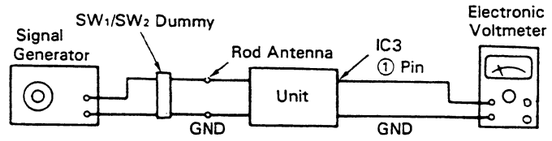


Figure 8—4 SW_1/SW_2 RF

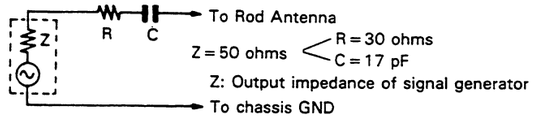


Figure 8—5 SW_1/SW_2 DUMMY

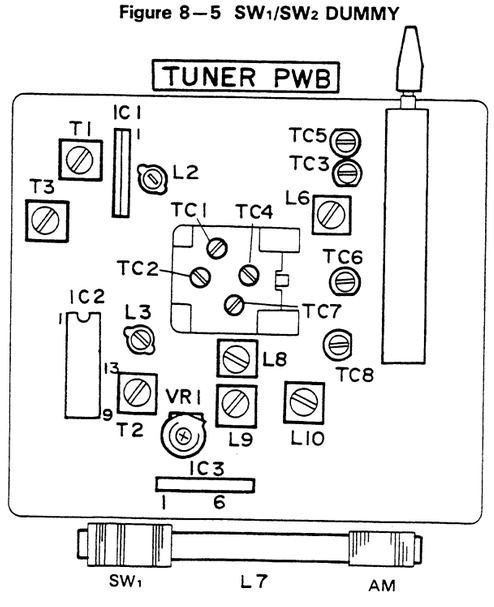


Figure 8—6 ADJUSTMENT POINTS

FM IF/RF ADJUSTMENT

SWITCH POSITION		Function Selector: Radio Band Selector: FM FM Mode: Stereo Volume Control: Maximum			
SIGNAL GENERATOR		400 Hz, 30%, FM modulated			
STEP	TEST STAGE	FRE-QUENCY	DIAL POINTER SETTING	AD-JUST-MENT	REMARKS
1	IF	10.7 MHz	High frequency	T1	1. Using a minus driver, turn the core of T2 counter-clockwise before taking it out of the bobbin. 2. Adjust for best "IF" curve.
2	Detection			T2	Adjust for best "S" curve.
3	Repeat steps 1 and 2 until no further improvement can be made.				
4	Band coverage	87.1 MHz	Lowest frequency	L3	Adjust for maximal output.
5		109 MHz	Highest frequency	TC2	
6	Repeat steps 4 and 5 until no further improvement can be made.				
7	Tracking	88 MHz	88 MHz	L2	Adjust for maximal output.
8		108 MHz	108 MHz	TC1	
9	Repeat steps 7 and 8 until no further improvement can be made.				

VCO FREQUENCY ADJUSTMENT

SIGNAL GENERATOR	400 Hz, 30%, FM modulated (mono signal)		
FREQUENCY	DIAL POINTER SETTING	ADJUST-MENT	REMARKS
FM mono position		FM stereo position (unmodulated)	
98 MHz at 54 dB	98 MHz	VR1	Adjust for 38.0 kHz ± 100 Hz.

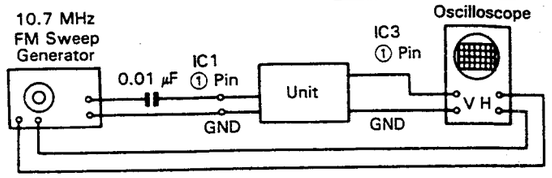
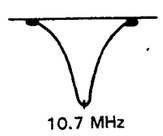


Figure 9—1 FM IF



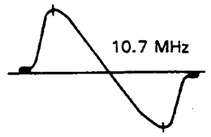


Figure 9—2 FM IF CURVE Figure 9—3 FM S CURVE

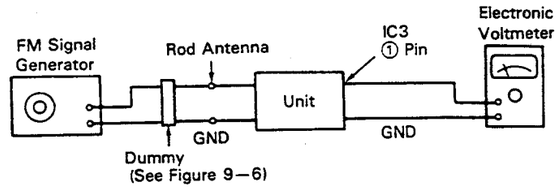


Figure 9—4 FM RF

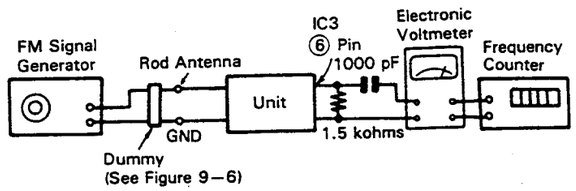
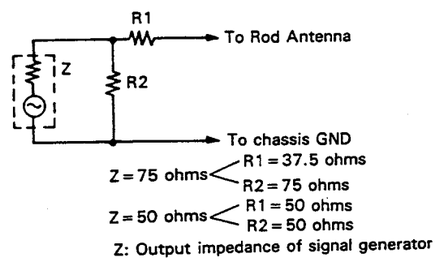


Figure 9—5 VCO FREQUENCY



Z: Output impedance of signal generator

Figure 9—6 FM DUMMY

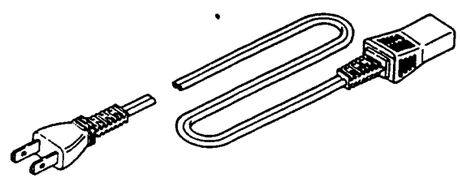
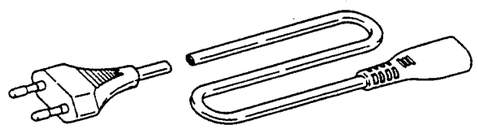
NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K is used: the symbol K means 1000 ohm and the resistor without any symbol is ohm-type resistor.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.

1. For the band selector switch of the tuner circuit:
   ( ): AM mode
   Marking except for ( ): FM mode
2. For the audio circuit:
   ( ): Record mode
   Marking except for ( ): Stop mode
3. For the mechanism control circuit:
   ( ): High speed mode
   Without mark: Stop mode

- Parts marked with "⚠" (▩) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.

AC POWER SUPPLY CORD

QACCZ0059AF00	QACCZ0060AF00
	

VOLTAGE SELECTION

Before operating the unit on mains, check the preset voltage. If the voltage is different from your local voltage, adjust the voltage as follows: Slide the AC power supply socket cover by slightly loosing the screw to the visible indication of the side of your local voltage.

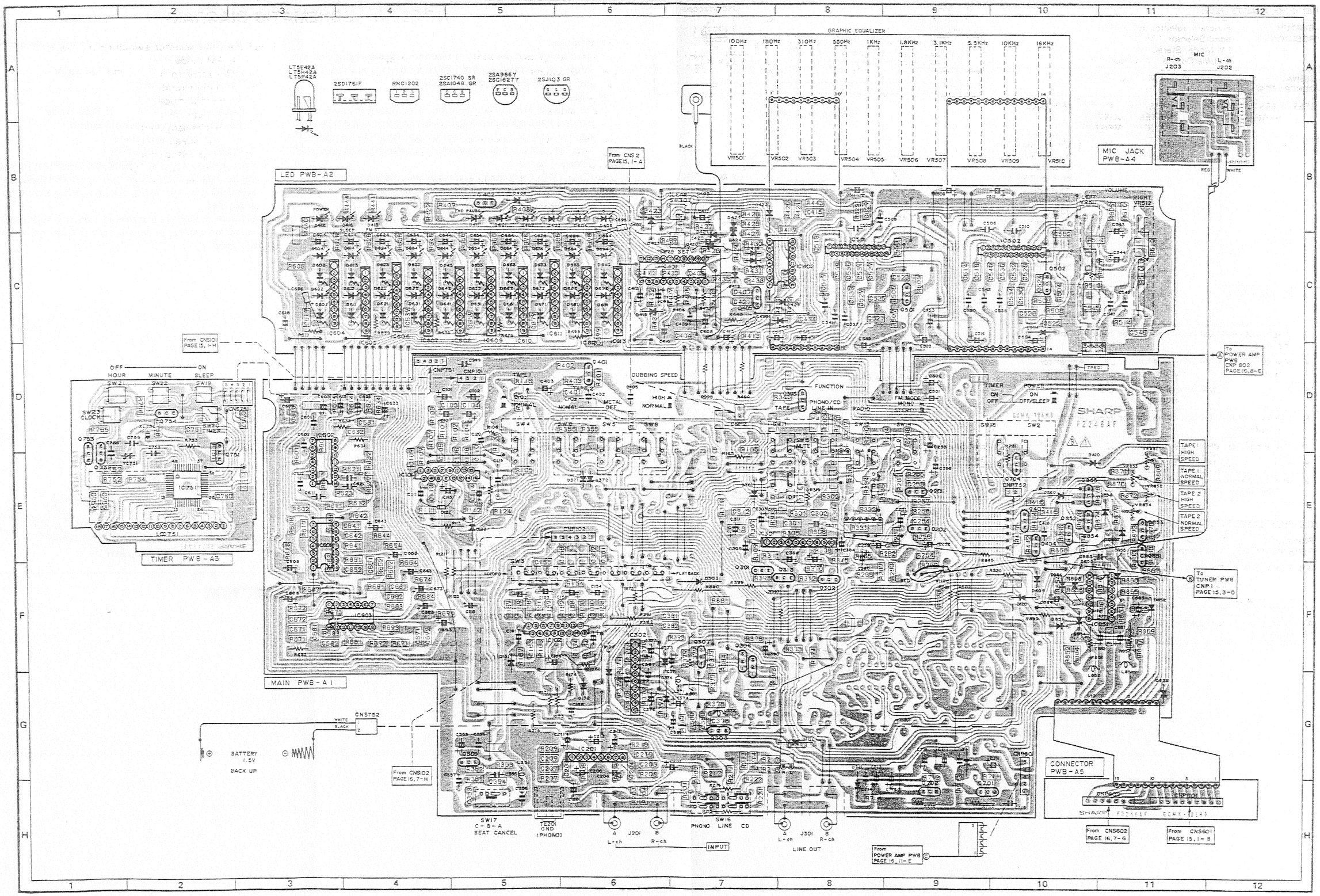


Figure 11 WIRING SIDE OF P.W.BOARD

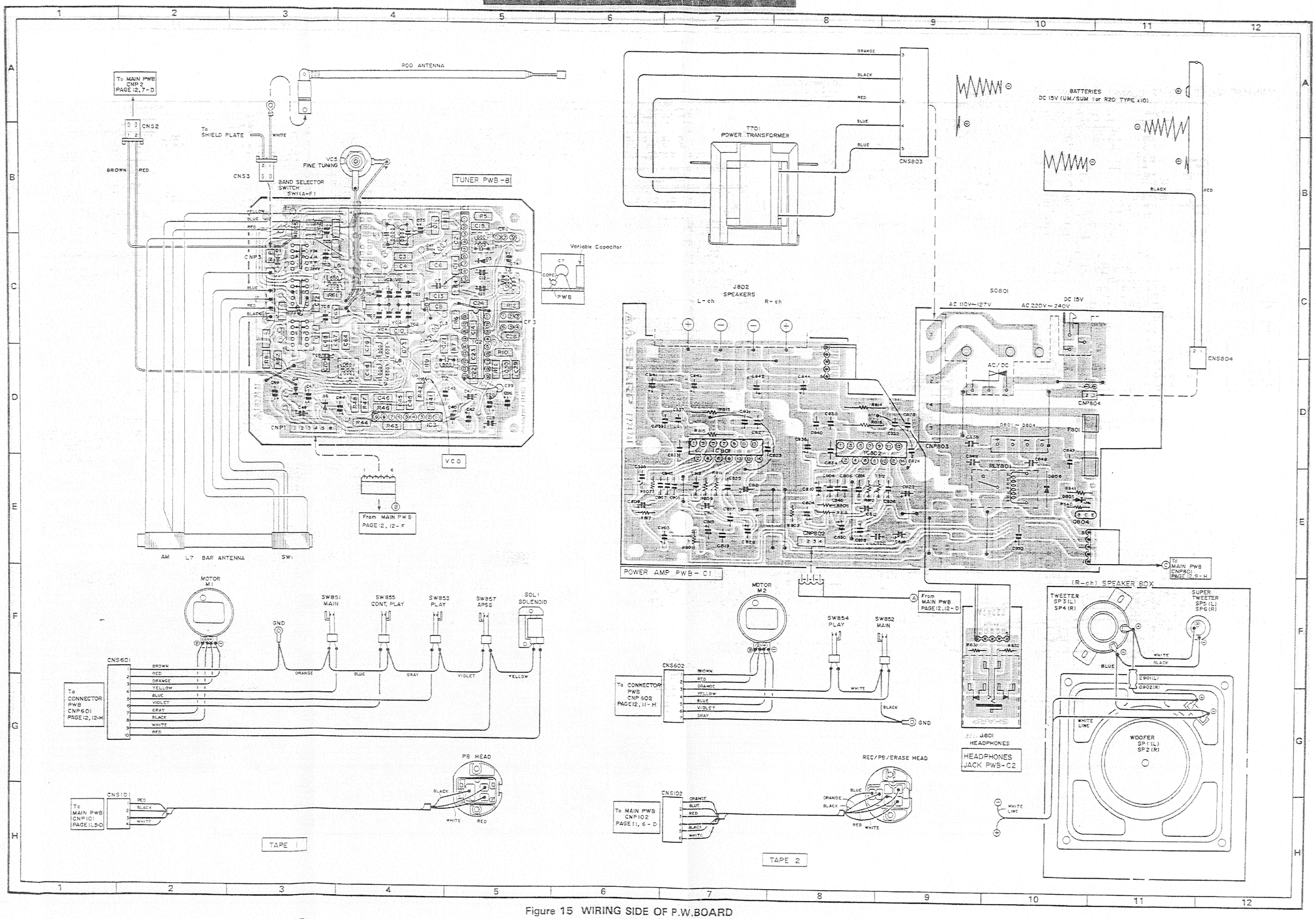
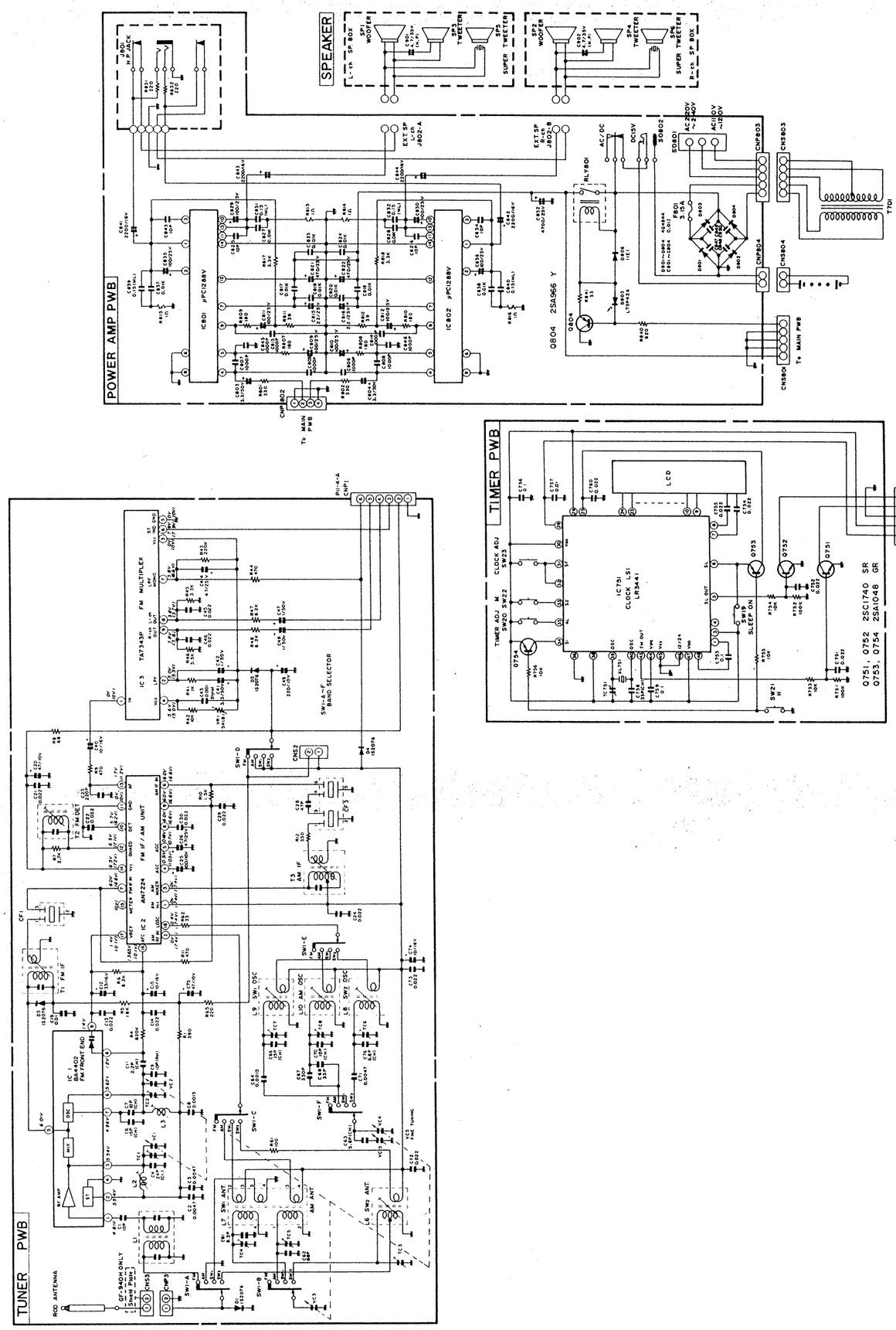
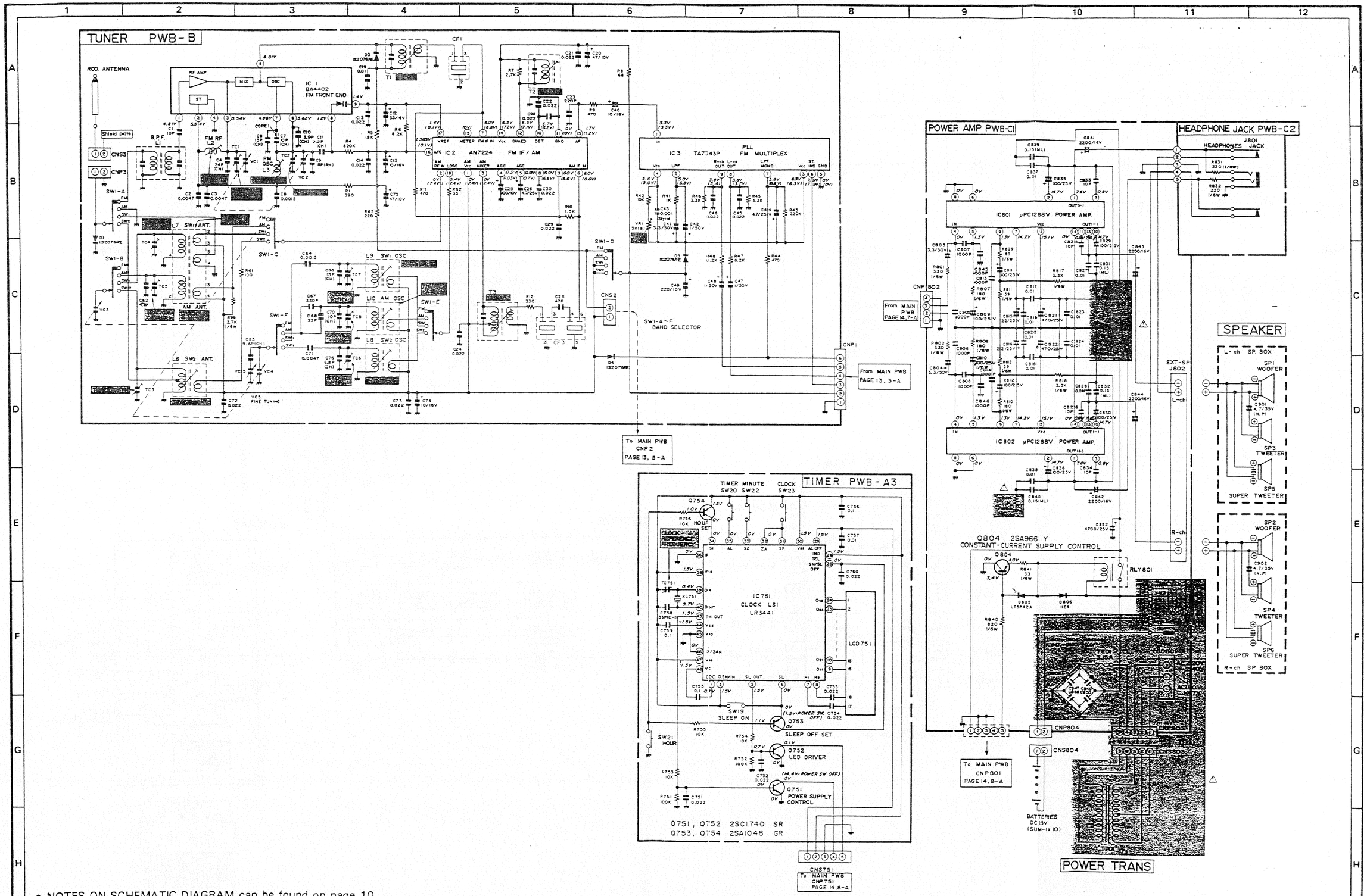


Figure 15 WIRING SIDE OF P.W.BOARD

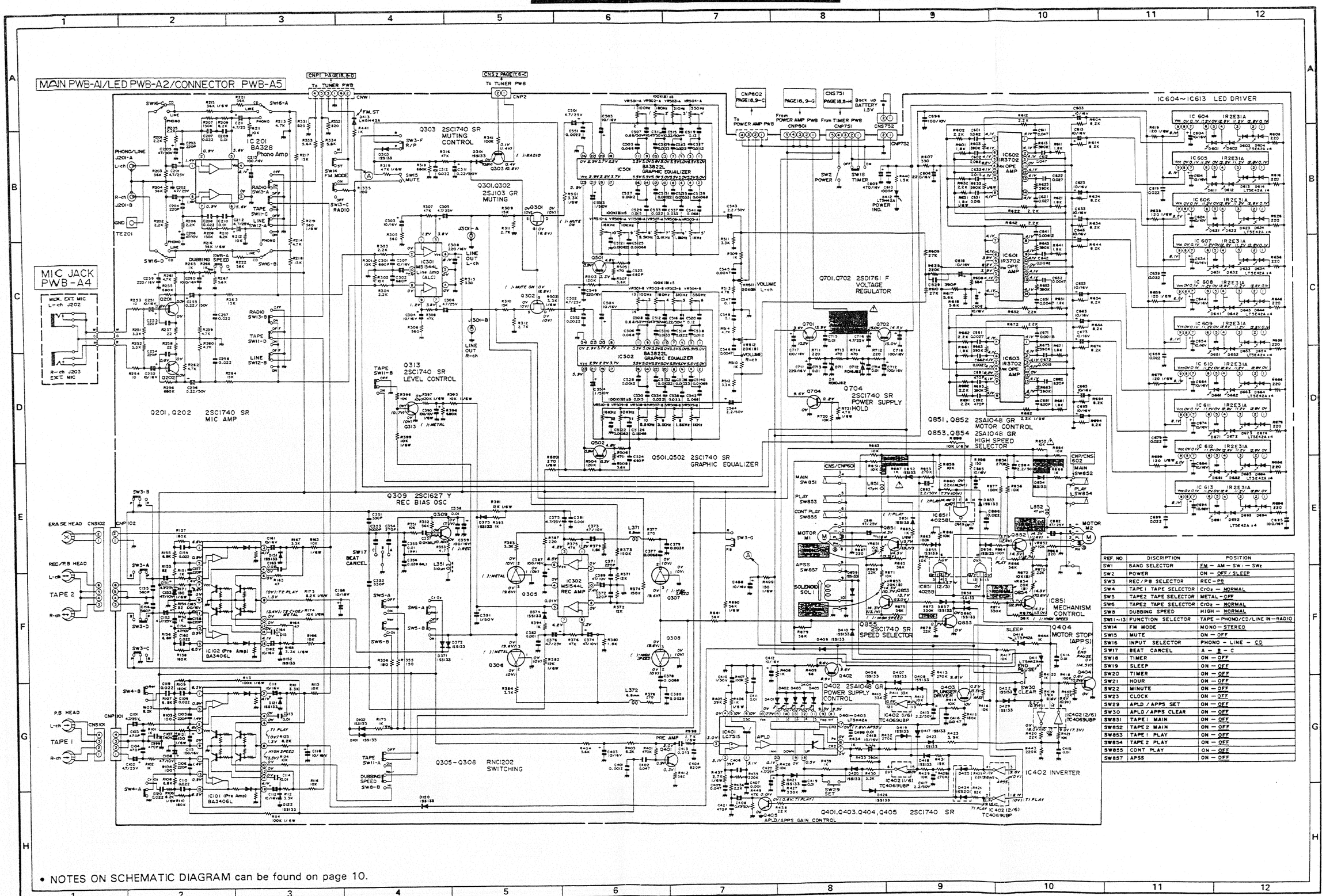


- **Wiring diagram of this model is subject to change for the improvement without prior notice.**
- **Le diagramme de câblage de ce modèle est susceptible de modifications sans préavis pour l'amélioration.**
- **El diagrama del cableado del presente modelo queda sujeto a cambios sin aviso previo, a fin de mejorarlo.**
- 凡是關於改進上所需要的接綫圖之變更，一概不另行通知，預請諒解爲荷。
- 이 모델의 배선도는 품질의 개량을 위하여 예고없이 변경되는 경우가 있으니 양해바랍니다.
- الرسم البياني للاسلاك لهذا الموديل عرضه للتغير من اجل التحسن بدون اخطار سابق .


TUNER PWB-B
IC 1 B44402 FM FRONT END
IC 2 AN7224 FM IF / AM
IC 3 TA7343P PLL FM MULTIPLEX
SW1-A~F BAND SELECTOR
TIMER PWB-A3
IC751 CLOCK LSI LR3441
Q751, Q752 2SC1740 SR
Q753, Q754 2SA1048 GR
POWER AMP PWB-C1
IC801 μPC1288V POWER AMP.
IC802 μPC1288V POWER AMP.
Q804 2SA966 Y
CONSTANT-CURRENT SUPPLY CONTROL
HEADPHONE JACK PWB-C2
SPEAKER
L-ch SP. BOX
R-ch SP. BOX
POWER TRANS
To MAIN PWB CNP2 PAGE13, 5-A
From MAIN PWB PAGE14, 7-A
From MAIN PWB PAGE13, 3-A
To MAIN PWB CNP801 PAGE14, 8-A
CNS751 To MAIN PWB CNP751 PAGE14, 8-A
BATTERIES DC15V (SUM-1x10)

• NOTES ON SCHEMATIC DIAGRAM can be found on page 10.

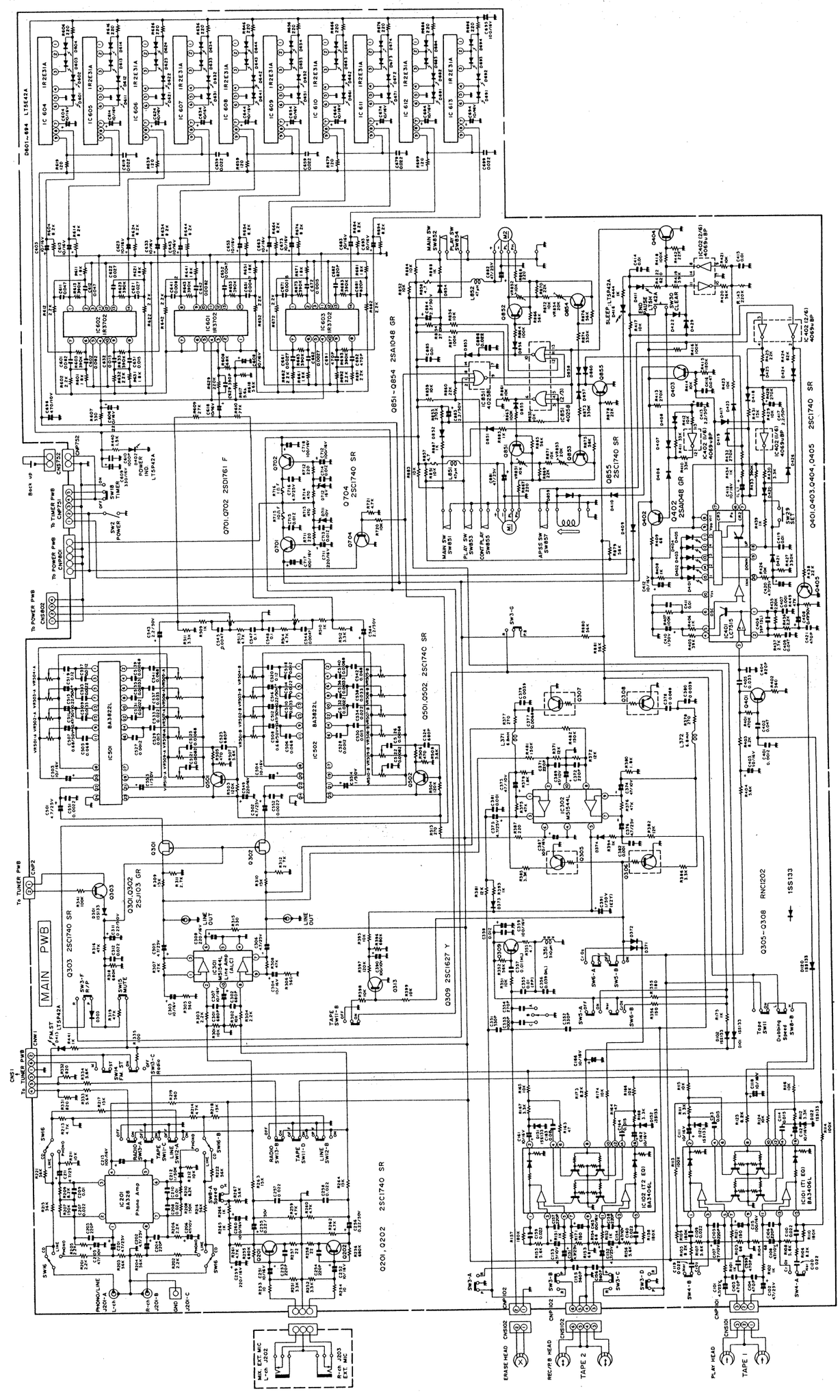
Figure 17 SCHEMATIC DIAGRAM



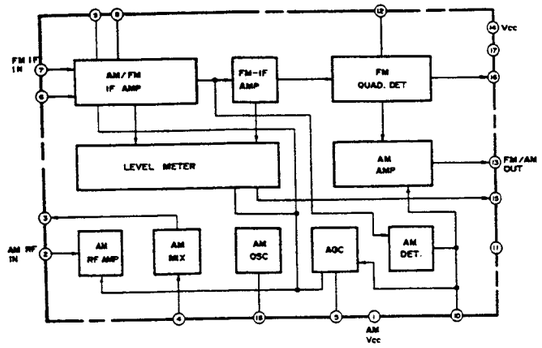
REF. NO.	DISCRIPTION	POSITION
SW1	BAND SELECTOR	FM – AM – SW1 – SW2
SW2	POWER	ON – OFF / SLEEP
SW3	REC / PB SELECTOR	REC – PB
SW4	TAPE 1 TAPE SELECTOR	CrO_2 – NORMAL
SW5	TAPE 2 TAPE SELECTOR	METAL – OFF
SW6	TAPE2 TAPE SELECTOR	CrO_2 – NORMAL
SW8	DUBBING SPEED	HIGH – NORMAL
SW11~13	FUNCTION SELECTOR	TAPE – PHONO/CD/LINE IN – RADIO
SW14	FM MODE	MONO – STEREO
SW15	MUTE	ON – OFF
SW16	INPUT SELECTOR	PHONO – LINE – CD
SW17	BEAT CANCEL	A – B – C
SW18	TIMER	ON – OFF
SW19	SLEEP	ON – OFF
SW20	TIMER	ON – OFF
SW21	HOUR	ON – OFF
SW22	MINUTE	ON – OFF
SW23	CLOCK	ON – OFF
SW29	APLD / APPS SET	ON – OFF
SW30	APLD / APPS CLEAR	ON – OFF
SW851	TAPE1 MAIN	ON – OFF
SW852	TAPE2 MAIN	ON – OFF
SW853	TAPE1 PLAY	ON – OFF
SW854	TAPE2 PLAY	ON – OFF
SW855	CONT PLAY	ON – OFF
SW857	APSS	ON – OFF

• NOTES ON SCHEMATIC DIAGRAM can be found on page 10.

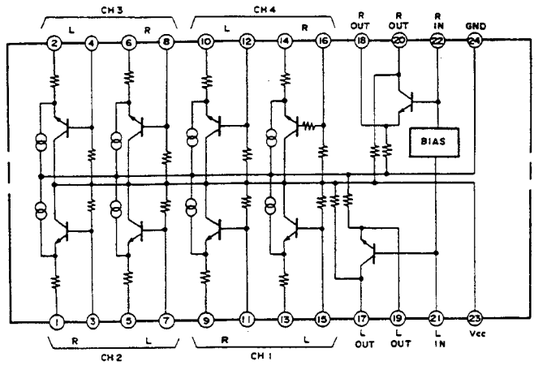
Figure 13 SCHEMATIC DIAGRAM

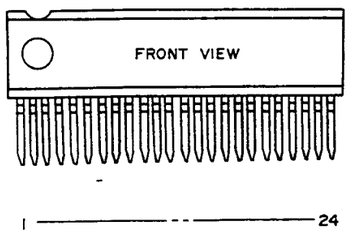

MAIN PWB
D601~604 LT5E42A
IC 604 IR2E31A
IC 605 IR2E31A
IC 606 IR2E31A
IC 607 IR2E31A
IC 608 IR2E31A
IC 609 IR2E31A
IC 610 IR2E31A
IC 611 IR2E31A
IC 612 IR2E31A
IC 613 IR2E31A
IC601 IR3702
IC602 IR3702
IC603 IR3702
Q701,Q702 2SD1761 F
Q704 2SC1740 SR
Q851~Q854 2SA1048 GR
Q855 2SC1740 SR
Q402 2SA1048 GR
Q401,Q403,Q404,Q405 2SC1740 SR
Q501,Q502 2SC1740 SR
Q201,Q202 2SC1740 SR
Q303 2SC1740 SR
Q301,Q302 2SJ103 GR
Q309 2SC1627 Y
Q305~Q308 RNC1202
1SS133
IC201 BA328 Phono Amp
IC301 NJM4558D (ALC)
IC302 M51544L
IC401 LC7515
IC402 (1/6) 4069UBP
IC501,502 BA3822L
IC851 4025BF
IC852 4025BF
IC853 4025BF
IC401 (1/6) BA3404L
IC402 (2/6) 4069UBP
IC402 (3/6) 4069UBP
IC402 (4/6) 4069UBP
IC402 (5/6) 4069UBP
IC402 (6/6) 4069UBP
IC402 (1/6) 4069UBP

AN7224

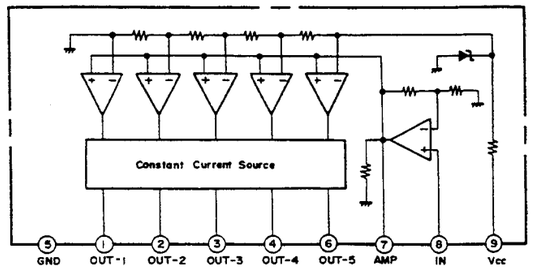


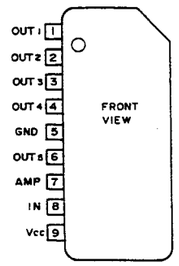
BA3822L



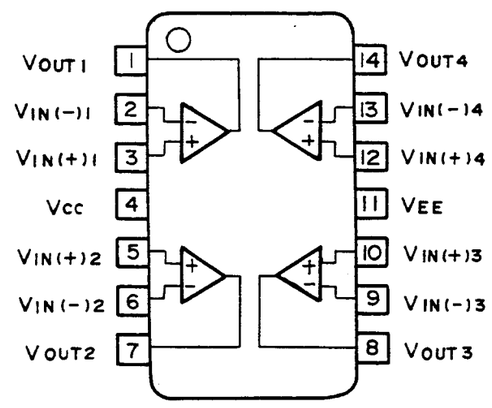


IR2E31A

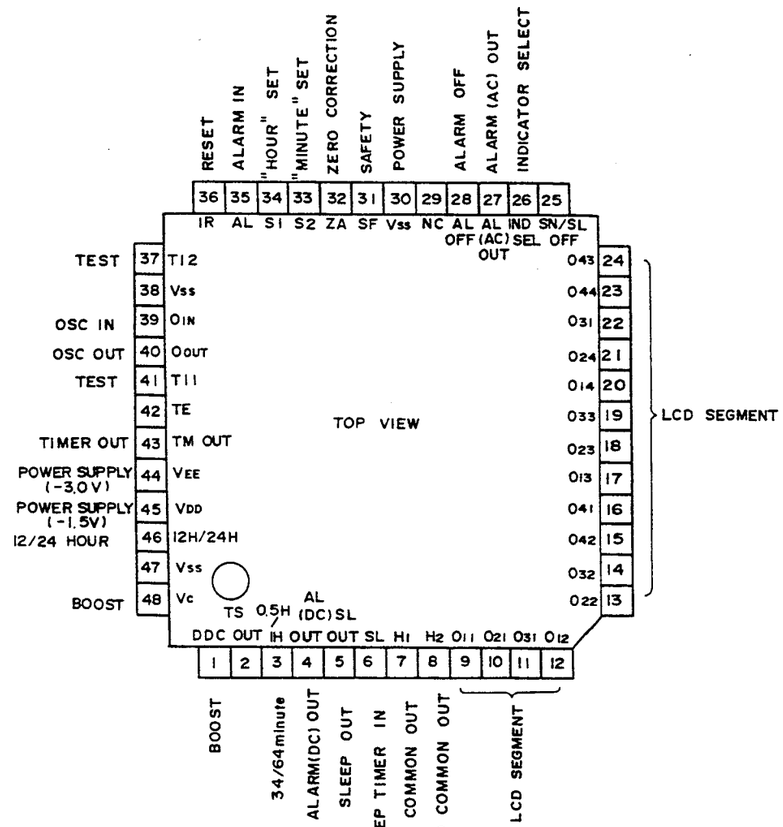




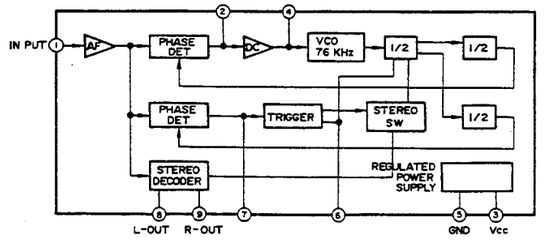
IR3702



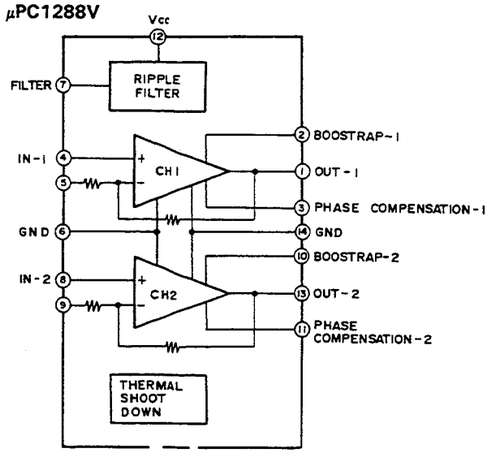
LR3441



TA7343P



μPC1288V



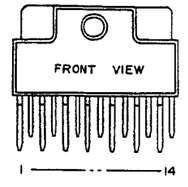


Figure 19 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC

Figure 20 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC

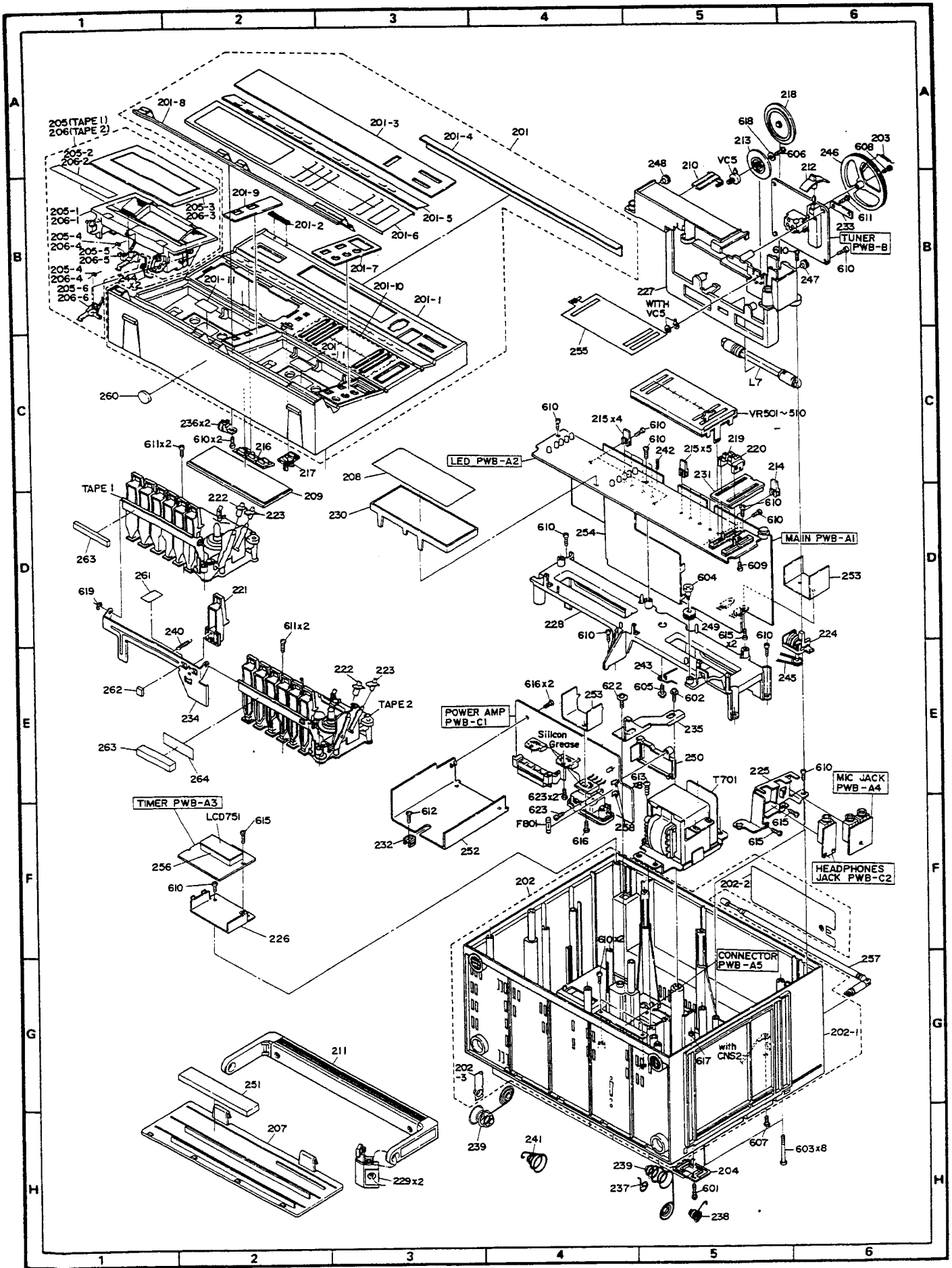
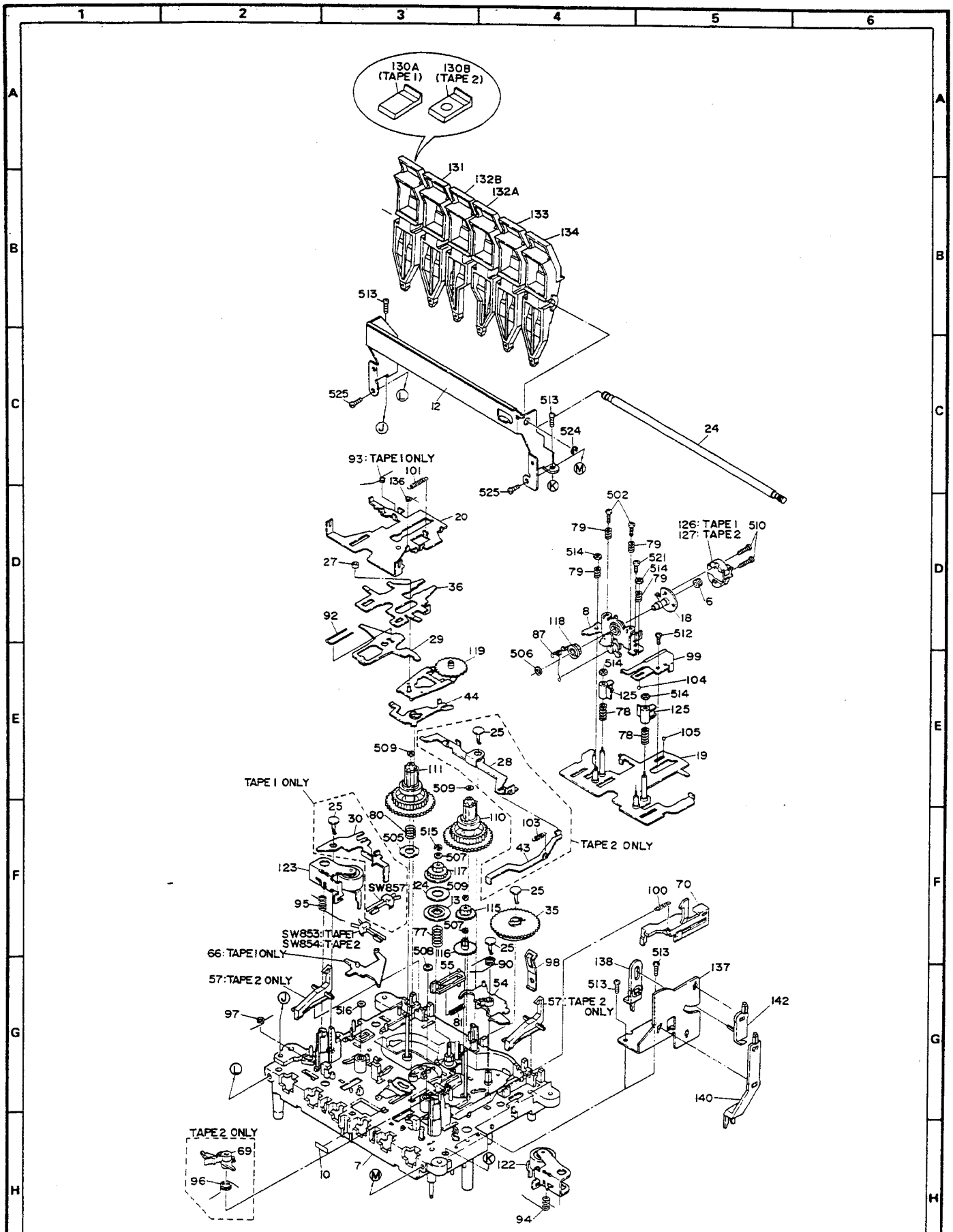


Figure 21 CABINET EXPLODED VIEW



TOP VIEW

Figure 22 MECHANISM EXPLODED

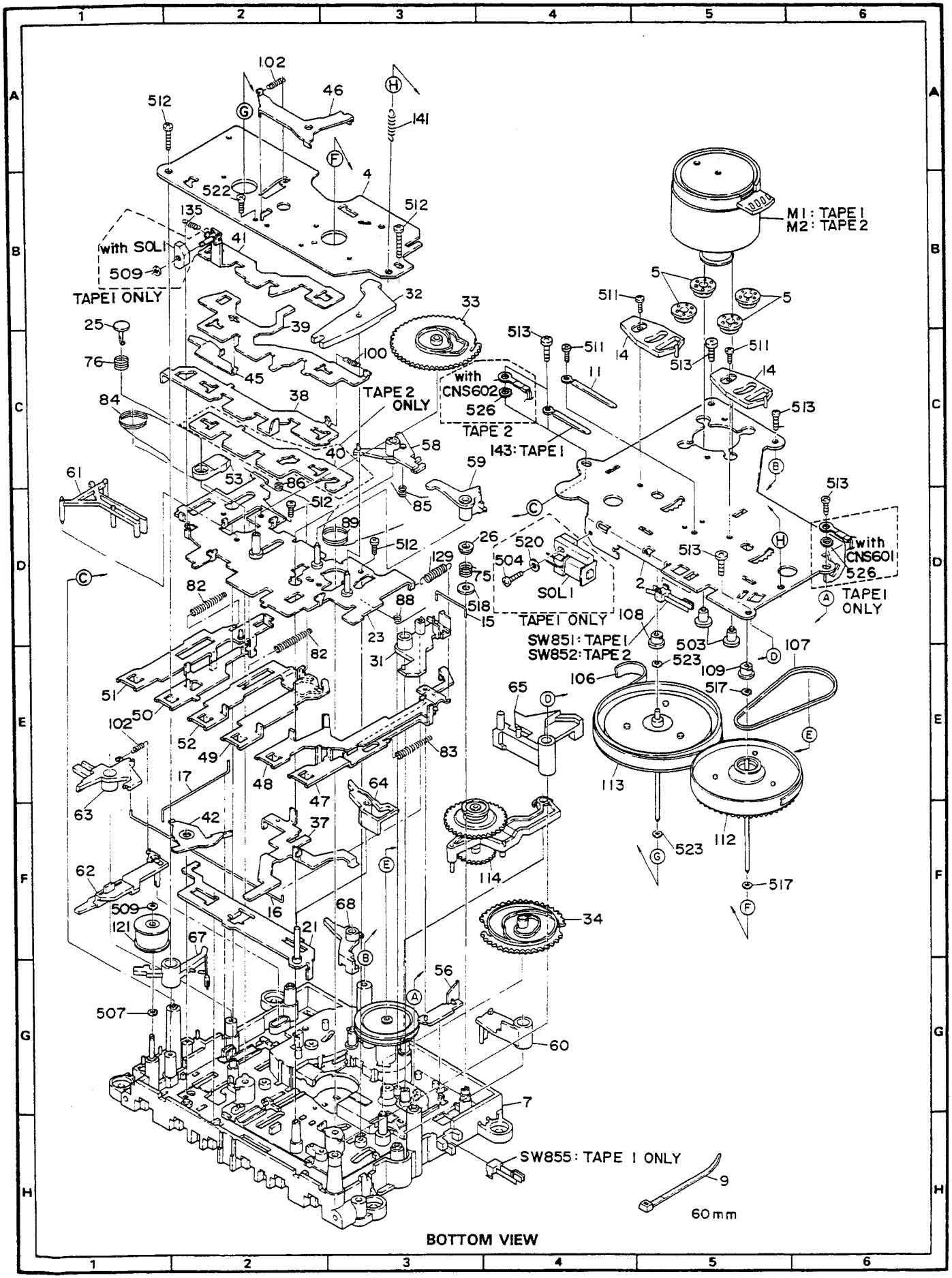


Figure 23 MECHANISM EXPLODED

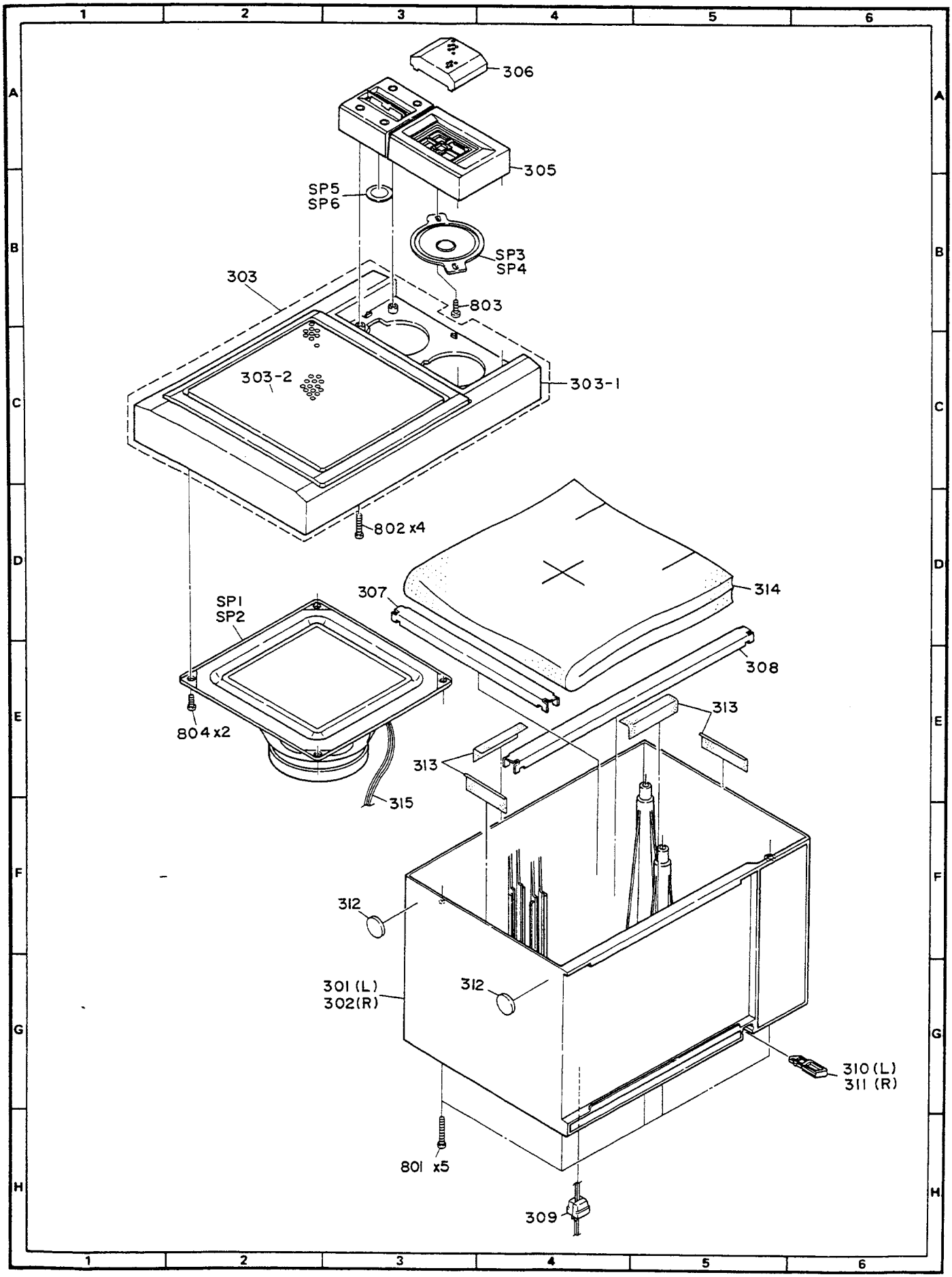


Figure 24 SPEAKER EXPLODED VIEW

REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF.NO.	PART NO.	DESCRIPTION	CODE
	INTEGRATED CIRCUITS		
IC1	VHiBA4402//-1	FM Front End,BA4402	A F
IC2	VHiAN7224//-1	FM IF/AM Circuit,AN7224	A H
IC3	VHiTA7343P/-1	PLL FM MPX,TA7343P	A G
IC101,102	VHiBA3406L/-1	Pre Amp.,BA3406L	A F
IC201	RH-iX1116AFZZ	Phono Amp,BA328	A G
IC301	VHiM51544AL-1	Line Amp.,M51544AL	A G
IC302	VHiM51544AL-1	Record Amp.,M51544AL	A G
IC401	VHiLC7515//-1	APLD,LC7515	A H
IC402	RH-iX1154AFZZ	Inverter, TC4069 UBP	A E
IC501,502	VHiBA3822L/-1	Graphic Equalizer,BA3822L	A G
IC601~603	VHiiR3702//-1	Operational Amp.,IR3702	A H
IC604~613	VHiiR2E31A/-1	LED Driver,IR2E31A	A F
IC751	VHiLR3441//-1	LSI,LR3441	A N
IC801,802	VHiUPC1288V-1	Power Amp.,μPC1288V	A L
IC851	RH-iX1150AFZZ	Mechanism Control,4025B	A E
	TRANSISTORS		
Q201,202	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q301,302	VS2SJ103GR/-1	FET,2SJ103 GR	A C
Q303	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q305~308	VSRNC1202//-1	Digital,NPN,RNC1202	A B
Q309	VS2SC1627Y/-1	Silicon,NPN,2SC1627 Y	A D
Q313	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q401	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q402	VS2SA1048GR-1	Silicon,PNP,2SA1048 GR	A B
Q403~405	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q501,502	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q701,702	VS2SD1761F/-1	Silicon,NPN,2SD1761 F	A D
Q704	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q751,752	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q753,754	VS2SA1048GR-1	Silicon,PNP,2SA1048 GR	A B
Q804	VS2SA966-Y/-1	Silicon,PNP,2SA966 Y	A D
Q851~854	VS2SA1048GR-1	Silicon,PNP,2SA1048 GR	A B
Q855	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
	DIODES		
D1,3	VHD1S2076RE-1	Silicon,1S2076RE	A A
D4,5	VHD1S2076RE-1	Silicon,1S2076RE	A A
D101,102	VHD1SS133//-1	Silicon,1SS133	A A
D120~122	VHD1SS133//-1	Silicon,1SS133	A A
D151,152	VHD1SS133//-1	Silicon,1SS133	A A
D301,303	VHD1SS133//-1	Silicon,1SS133	A A
D371~374	VHD1SS133//-1	Silicon,1SS133	A A
D401~405	VHPLT5P42A/-1	LED,Orange,LT5H42A	A B
D406~410	VHD1SS133//-1	Silicon,1SS133	A A
D411	VHPLT5H42A/-1	LED,Orange,LT5H42A	A B
D412,413	VHPLT5P42A/-1	LED,Orange,LT5H42A	A B
D416	VHPLT5P42A/-1	LED,Red LT5P42A	A B
D417~423	VHD1SS133//-1	Silicon,1SS133	A A
D424/425	VHD1SS201//-1	Silicon,1SS201	A B
D426,429	VHD1SS133//-1	Silicon,1SS133	A A
D601~604	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D611~614	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D621~624	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D631~634	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D641~644	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D651~654	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D661~664	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D671~674	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D681~684	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D691~694	VHPLT5E42A/-1	LED,Green,LT5E42A	A B
D711	VHERD100JB2-1	Zener,10V,RD10JB2	A B
D712	VHERD160JB2-1	Zener,16V,RD16JB2	A A
⚠D801~804	VHD4G4B44//-1	Bridge,4G4B44	A G
D805	VHPLT5P42A/-1	LED,Red,LT5P42A	A B
D806	VHD11E4TA2/-1	Silicon,11E4	A B
D851~860	VHD1SS133//-1	Silicon,1SS133	A A
	FILTERS		
CF1	RFiLF0080AFZZ	Ceramic,FM IF,10.7MHz	A D
CF3	RFiLA0085AFZZ	Ceramic,AM IF,455kHz	A E
	TRANSFORMERS		
T1	RCiLi0324AFZZ	FM IF	A C
T2	RCiLi0312AFZZ	FM Detector	A C
T3	RCiLi0310AFZZ	AM IF	A C
⚠T701	RTRNP1249AFZZ	Power	A Z
	COILS		
L1	RCiLA0620AFZZ	FM Band Pass Filter	A C
L2	RCiLB0672AFZZ	FM RF	A C
L3	RCiLB0672AFZZ	FM Oscillator	A C
L6	RCiLA0556AFZZ	SW2 Antenna	A D
L7	RCiLA0818AFZZ	AM/SW Bar Antenna	A M
L8	RCiLB0625AFZZ	SW2 Oscillator	A C
L9	RCiLB0624AFZZ	SW1 Oscillator	A C
L10	RCiLB0623AFZZ	AM Oscillator	A C
L351	RCiLF0072AFZZ	Bias Oscillator,510 μH	A C
L371,372	RCiLZ0104AFZZ	6.8 mH	A C
L851,852	RCiLF0014AGZZ	47 μH,Choke	A B
	CONTROLS		
TC3	RTō-H1072AFZZ	Trimmer,SW2 Antenna	A C
TC5	RTō-H1072AFZZ	Trimmer,AM Antenna	A C
TC6	RTō-H1072AFZZ	Trimmer,SW2 Oscillator	A C
TC8	RTō-H1072AFZZ	Trimmer,AM Oscillator	A C
TC751	RTō-H1067AFZZ	Trimmer,11 pF	A D
VC1~4	RVC-R0096AFZZ	Variable Capacitor With Trimmers	A N
VC5	RVC-Z0066AFZZ	Fine Tuning	A E
VR1	RVR-M0390AFZZ	5 kohms (B)	A B
VR501~510	RVR-Z0222AFZZ	100 kohm (B)×10	A Y

REF.NO.	PART NO.	DESCRIPTION	CODE
VR511,512	RVR-Q0158AFZZ	20 kohms (B)	A F
VR851,852	RVR-M0464AFZZ	10 kohm (B)	A B
VR853,854	RVR-M0465AFZZ	20 kohms (B)	A B

CRYSTAL

XL751	RCRSP0051AFZZ	32.768 kHz	A K

ELECTROLYTIC CAPACITORS

(All electrolytic capacitors are ±20% type.)

C12	RC-EZA336AF1C	33 μF,16V	A A
C15	RC-EZA106AF1C	10 μF,16V	A B
C20	RC-EZA476AF1A	47 μF,10V	A A
C25	RC-EZA107AF1A	100 μF,10V	A B
C26	RC-EZA475AF1E	4.7 μF,25V	A B
C40	RC-EZA106AF1C	10 μF,16V	A B
C41	RC-EZA335AF1H	3.3 μF,50V	A A
C42	RC-EZA105AF1H	1 μF,50V	A A
C44	RC-EZA475AF1E	4.7 μF,25V	A B
C47	RC-EZA105AF1H	1 μF,50V	A A
C48	RC-EZA105AF1H	1 μF,50V	A A
C49	RC-EZA227AF1A	220 μF,10V	A B
C74	RC-EZA106AF1C	10 μF,16V	A B
C75	RC-EZA476AF1A	47 μF,10V	A A
C101,102	RC-GZA475AF1E	4.7 μF,25V	A A
C107,108	RC-GZA476AF1A	47 μF,10V	A A
C111,112	RC-GZA106AF1C	10 μF,16V	A A
C115	RC-GZA107AF1C	100 μF,16V	A B
C118	RC-GZA106AF1C	10 μF,16V	A A
C151,152	RC-GZA475AF1E	4.7 μF,25V	A A
C153,154	RC-GZA476AF1A	47 μF,10V	A A
C161,162	RC-GZA106AF1C	10 μF,16V	A A
C165	RC-GZA107AF1C	100 μF,16V	A B
C166	RC-GZA106AF1C	10 μF,16V	A A
C201,202	RC-GZA475AF1E	4.7 μF,25V	A A
C205,206	RC-GZA476AF1A	47 μF,10V	A A
C211,212	RC-GZA475AF1E	4.7 μF,25V	A A
C213	RC-GZA107AF1C	100 μF,16V	A B
C251,252	RC-GZA106AF1C	10 μF,16V	A A
C255,256	RC-GZA224AF1H	0.22 μF,50V	A A
C259	RC-GZA227AF1C	220 μF,16V	A B
C260	RC-GZA107AF1C	100 μF,16V	A B
C303,304	RC-GZA106AF1C	10 μF,16V	A A
C305,306	RC-GZA475AF1E	4.7 μF,25V	A A
C307	RC-GZA106AF1C	10 μF,16V	A A
C308	RC-GZA227AF1C	220 μF,16V	A B
C311	RC-GZA224AF1H	0.22 μF,50V	A A
C359	RC-GZA107AF1C	100 μF,16V	A B
C373,374	RC-GZA476AF1A	47 μF,10V	A A
C375,376	RC-GZA475AF1E	4.7 μF,25V	A A
C387	RC-GZA107AF1C	100 μF,16V	A B
C389	RC-GZA476AF1A	47 μF,10V	A A
C390	RC-GZA107AF1A	100 μF,10V	A C
C391	RC-EZY105AF1H	1 μF,50V	A B
C403	RC-EZY106AF1C	10 μF,16V	A B
C408	RC-GZA474AF1H	0.47 μF,50V	A A
C410	RC-GZA105AF1H	1 μF,50V	A A
C412	RC-EZY106AF1C	10 μF,16V	A B
C413	RC-GZA225AF1H	2.2 μF,50V	A A
C417	RC-GZA225AF1H	2.2 μF,50V	A A
C418	VCEALA1CW106M	10 μF,16V	A B
C420	RC-GZA475AF1E	4.7 μF,25V	A A
C501,502	RC-GZA475AF1E	4.7 μF,25V	A A
C503	RC-GZA106AF1C	10 μF,16V	A A
C504	RC-EZY106AF1C	10 μF,16V	A B
C507,508	RC-EZY684AF1H	0.68 μF,50V	A B
C511,512	RC-EZY474AF1H	0.47 μF,50V	A B
C515,516	RC-EZY224AF1H	0.22 μF,50V	A B
C543,544	RC-EZY225AF1H	2.2 μF,50V	A B
C549	RC-GZA227AF1C	220 μF,16V	A B
C553	RC-EZY105AF1H	1 μF,50V	A B
C554	RC-EZT105AF1H	1 μF,50V	A B
C603	RC-GZA106AF1C	10 μF,16V	A A
C604	RC-EZY106AF1C	10 μF,16V	A B
C606	RC-GZA227AF1C	220 μF,16V	A B
C608	RC-GZA106AF1C	10 μF,16V	A A
C609	RC-GZA477AF1C	470 μF,16V	A C
C613	RC-GZA106AF1C	10 μF,16V	A A
C614	RC-EZY106AF1C	10 μF,16V	A B
C618	RC-GZA106AF1C	10 μF,16V	A A
C623	RC-GZA106AF1C	10 μF,16V	A A
C624	RC-EZY106AF1C	10 μF,16V	A B
C633	RC-GZA106AF1C	10 μF,16V	A A
C634	RC-EZY106AF1C	10 μF,16V	A B
C643	RC-GZA106AF1C	10 μF,16V	A A
C644	RC-EZY106AF1C	10 μF,16V	A B
C653	RC-GZA106AF1C	10 μF,16V	A A
C654	RC-EZY106AF1C	10 μF,16V	A B
C663	RC-GZA106AF1C	10 μF,16V	A A
C664	RC-EZY106AF1C	10 μF,16V	A B
C673	RC-GZA106AF1C	10 μF,16V	A A
C674	RC-EZY106AF1C	10 μF,16V	A B
C683	RC-GZA106AF1C	10 μF,16V	A A
C684	RC-EZY106AF1C	10 μF,16V	A B
C693	RC-GZA106AF1C	10 μF,16V	A A
C694	RC-EZY106AF1C	10 μF,16V	A B
C695	RC-EZT107AF1C	100 μF,16V	A B
C696	RC-GZV107AF1A	100 μF,10V	A B
C711	RC-GZA227AF1C	220 μF,16V	A B
C712	RC-GZA107AF1C	100 μF,16V	A B
C716	RC-GZA475AF1E	4.7 μF,25V	A A
C717,718	RC-GZA107AF1C	100 μF,16V	A B
C803,804	RC-GZA335AF1H	3.3 μF,50V	A A
C809~812	RC-GZA107AF1E	100 μF,25V	A B
C815,816	RC-GZA226AF1E	22 μF,25V	A B
C821,822	RC-GZV477AF1E	470 μF,25V	A C
C829,830	RC-GZA107AF1E	100 μF,25V	A B
C835,836	RC-GZA107AF1E	100 μF,25V	A B
C841~844	RC-GZV228AF1C	2200 μF,16V	A G
C852	RC-GZW478AF1E	4700 μF,25V	A G
C881	RC-EZY476AF1E	47 μF,25V	A B
C882	RC-GZA476AF1E	47 μF,25V	A B
C883	RC-EZY225AF1H	2.2 μF,50V	A B
C884	RC-GZA225AF1H	2.2 μF,50V	A A
C899	RC-EZV106AF1C	10 μF,16V	A B
C901,902	VCE9AT1VC475M	4.7 μF,35V,Non-polar	A D

CAPACITORS

There are two types of capacitors available and they can be identified from each other by reading their Part Numbers.

- Ceramic type capacitor;

  A symbol "C" or "K" is given at the 3rd digit of its Part Number like "VCC (or K)·····J."

- Semiconductor type capacitor;

  A symbol "T" is given at the 3rd digit of its Part Number like "VCT·····J."

The capacitance error of each capacitor is indicated by the symbol given at the 13th digit of the Part Number as follows:"J" (±5%), "K" (±10%), "M" (±20%), "N" (±30%), "C" (±0.25 pF), "D" (±0.5 pF), "Z" (+80−20%).
(Tubular type ceramic capacitor is identified by the symbol MF of the part NO. VC00MF0000000; this MF does not mean the lead wire.)

C1	VCCSMF1HL100J	10 pF,50V	A A
C2,3	VCTYMF1HV472K	0.0047 μF,50V	A A
C4	VCCCMF1HH240J	24 pF (CH),50V	A A
C6	VCCCMF1HH150J	15 pF (CH),50V	A A
C7	VCCCMF1HH100J	10 pF (CH),50V	A A
C7	VCCCPU1HH100J	10 pF (CH),50V	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
C8	VCTYMF1HV152K	0.0015 μF,50V	A A
C9	VCCRPU1HH8R0D	8 pF (RH),50V	A A
C10	VCCCMF1HH3R9C	3.9 pF (CH),50V	A A
C11	VCCCMF1HH2R2C	2.2 pF (CH),50V	A A
C13,14	VCTYMF1CY223N	0.022 μF,16V	A A
C19	VCTYMF1EX103N	0.01 μF,25V	A A
C21,22	VCTYMF1CY223N	0.022 μF,16V	A A
C23	VCKYMF1HB221K	220 pF,50V	A A
C24	VCTYMF1CY223N	0.022 μF,16V	A A
C28	VCCSMF1HL470J	47 pF,50V	A A
C29,30	VCTYMF1CY223N	0.022 μF,16V	A A
C43	VCQSMA1HL102J	1000 pF,50V,Styrol	A B
C45,46	VCTYMF1CY223N	0.022 μF,16V	A A
C62	VCCSMF1HL4R7C	4.7 pF,50V	A A
C63	VCCCMF1HH5R6D	5.6 pF (CH),50V	A A
C64	VCTYMF1HV152K	0.0015 μF,50V	A A
C66	VCCCMF1HH130J	13 pF (CH),50V	A A
C67	VCKYMF1HB331J	330 pF,50V	A A
C68	VCCSMF1HL330J	33 pF,50V	A A
C70	VCCCMF1HH100J	10 pF (CH),50V	A A
C71	VCTYMF1HV472K	0.0047 μF,50V	A A
C72,73	VCTYMF1CY223N	0.022 μF,16V	A A
C76	VCCCMF1HH6R8D	6.8 pF (CH),50V	A A
C99	VCTYPU1EX223M	0.022 μF,25V	A A
C103,104	VCKYMF1HB471K	470 pF,50V	A A
C105,106	VCKYMF1HB221K	220 pF,50V	A A
C109,110	VCTYMF1CY223M	0.022 μF,16V	A B
C113,114	VCTYMF1EX103M	0.01 μF,25V	A A
C119,120	VCTYAT1CY223N	0.022 μF,16V	A A
C155,156	VCKYMF1HB561K	560 pF,50V	A A
C157,158	VCKYMF1HB221K	220 pF,50V	A A
C159,160	VCTYMF1CY223M	0.022 μF,16V	A B
C163,164	VCTYMF1EX153M	0.015 μF,25V	A A
C203,204	VCKYMF1HB221K	220 pF,50V	A A
C207,208	VCTYMF1CY223M	0.022 μF,16V	A B
C209,210	VCTYMF1EX103K	0.01 μF,25V	A A
C253,254	VCKYMF1HB221K	220 pF,50V	A A
C257,258	VCTYMF1CY223M	0.022 μF,16V	A B
C301	VCKYMF1HB681K	680 pF,50V	A A
C302	VCKYMF1HB681K	680 pF,50V	A A
C312	VCTYMF1CY223N	0.022 μF,16V	A A
C351	VCKYMF1HB331K	330 pF,50V	A A
C352	VCKYMF1HB331K	330 pF,50V	A A
C353	VCKYMF1HB102K	0.001 μF,50V	A A
C354	VCKYMF1HB271K	270 pF,50V	A A
C355	VCQPKQ2AA103J	0.01 μF,100V,Polypropylene	A B
C356	RC-QZA393AFYK	0.039 μF,50V,±10%,Mylar	A B
C357	RC-QZA103AFYK	0.01 μF,50V,±10%,Mylar	A B
C358	VCKZPA1HF103Z	0.01 μF,50V	A A
C371,372	VCKYMF1HB221K	220 pF,50V	A A
C377,378	VCTYMF1EX682K	0.0068 μF,25V	A A
C379,380	VCTYMF1HV392K	0.0039 μF,50V	A A
C381,382	VCKYMF1HB102K	0.001 μF,50V	A A
C401	VCKYMF1HD122M	0.0012 μF,50V	A A
C402	VCTYPA1EX473M	0.047 μF,50V	A A
C404	VCKYMF1HB821K	820 pF,50V	A A
C405	VCTYPA1EX333K	0.033 μF,25V	A A
C406	VCCSMF1HL390J	39 pF,50V	A A
C407	VCKYMF1HB102K	0.001 μF,50V	A A
C409	VCTYPA1EX473M	0.047 μF,50V	A A
C411	VCTYMF1EX103N	0.01 μF,25V	A A
C414,415	VCTYMF1EX103N	0.01 μF,25V	A A
C416	VCTYPA1EX473M	0.047 μF,50V	A A
C419	VCTYMF1EX103N	0.01 μF,25V	A A
C421	VCKYMF1HB471K	470 pF,50V	A A
C449	VCTYPU1EX103M	0.01 μF,25V	A A
C505,506	VCTYPA1CX683M	0.068 μF,16V	A A
C509,510	VCTYPA1EX333K	0.033 μF,25V	A A
C513,514	VCTYMF1CY223N	0.022 μF,16V	A A
C517,518	VCTYMF1EX123K	0.012 μF,25V	A A
C519,520	VCFYHA1HA124J	0.12 μF,50V	A B
C521,522	VCTYMF1EX822K	0.0082 μF,25V	A A
C523,524	VCKYMF1HB681K	680 pF,50V	A A
C525,526	VCTYMF1EX682K	0.0068 μF,25V	A A
C527,528	VCKYMF1HD122M	0.0012 μF,50V	A A
C529,530	VCTYMF1EX153M	0.015 μF,25V	A A
C531,532	VCTYMF1HV222K	0.0022 μF,50V	A A
C533,534	VCTYMF1CY223N	0.022 μF,16V	A A
C535,536	VCTYMF1HV332K	0.0033 μF,50V	A A
C537,538	VCTYPA1EX333K	0.033 μF,25V	A A
C539,540	VCTYMF1EX682K	0.0068 μF,25V	A A
C541,542	VCTYPA1CX683M	0.068 μF,16V	A A
C545,546	VCTYMF1HV472K	0.0047 μF,50V	A A
C547,548	VCTYPA1CX104M	0.1 μF,16V	A B
C551,552	VCTYMF1HV222K	0.0022 μF,50V	A A
C601,602	VCTYPA1CX823M	0.082 μF,16V	A B
C610	VCKYMF1HB102K	0.001 μF,50V	A A
C611,612	VCTYPA1EX473M	0.047 μF,50V	A A
C619	VCTYMF1CY223N	0.022 μF,16V	A A
C621,622	VCTYPA1EX273K	0.027 μF,25V	A A
C629	VCKYMF1HB391K	390 pF,50V	A A
C631,632	VCTYMF1EX153M	0.015 μF,25V	A A
C639	VCTYMF1CY223N	0.022 μF,16V	A A
C641,642	VCTYMF1EX822K	0.0082 μF,25V	A A
C651,652	VCTYMF1HV472K	0.0047 μF,50V	A A
C659	VCTYMF1CY223N	0.022 μF,16V	A A
C661,662	VCTYMF1HV272K	0.0027 μF,50V	A A
C671,672	VCTYMF1HV152K	0.0015 μF,50V	A A
C679	VCTYMF1CY223N	0.022 μF,16V	A A
C681,682	VCKYMF1HB821K	820 pF,50V	A A
C691,692	VCKYMF1HB471K	470 pF,50V	A A
C699	VCTYMF1CY223N	0.022 μF,16V	A A
C713,714	VCKZPA1HF103Z	0.01 μF,50V	A A
C715	VCKZPA1HF103Z	0.01 μF,50V	A A
C751,752	VCTYMF1CY223N	0.022 μF,16V	A A
C753	VCTYPA1CX104M	0.1 μF,16V	A B
C754,755	VCTYMF1CY223N	0.022 μF,16V	A A
C756	VCTYPA1CX104M	0.1 μF,16V	A B
C757	VCTYMF1EX103N	0.01 μF,25V	A A
C758	VCCCMF1HH330J	33 pF (CH),50V	A A
C759	VCTYPA1CX104M	0.1 μF,16V	A B
C760	VCTYMF1CY223N	0.022 μF,16V	A A
C805,806	VCKYBT1HB102K	0.001 μF,50V	A A
C807,808	VCKYBT1HB102K	0.001 μF,50V	A A
C813,814	VCKYBT1HB102K	0.001 μF,50V	A A
C817,818	VCTYPA1EX103K	0.01 μF,25V	A A
C819,820	VCTYPA1EX103K	0.01 μF,25V	A A
C823,824	VCTYPA1EX103K	0.01 μF,25V	A A
C825,826	VCCSBT1HL100J	10 pF,50V	A A
C827,828	VCTYPA1EX103K	0.01 μF,25V	A A
C831,832	RC-QZA154AFYK	0.15 μF,50V,±10%,Mylar	A C
C833,834	VCCSBT1HL100J	10 pF,50V	A A
C837,838	VCTYPA1EX103K	0.01 μF,25V	A A
C839,840	RC-QZA154AFYK	0.15 μF,50V,±10%,Mylar	A C
C845,846	VCKYBT1HB102K	0.001 μF,50V	A A
C847,848	VCKZPA1HF103Z	0.01 μF,50V	A A
C849,850	VCKZPA1HF103Z	0.01 μF,50V	A A
C885	VCTYMF1EX103N	0.01 μF,25V	A A
C886	VCTYMF1CY223M	0.022 μF,25V	A B
C999	VCCSPA1HL471J	470 pF,50V	A A

RESISTORS

(Unless otherwise specified, resistors are ±5%,carbon type.) (Tubular type carbon film resistor ±5% is identified the symbol MF of the part NO. VRD—MF0000000; this MF does not mean lead wire.)

	VRD-MF2EE000C	0 ohm,1/4W,Jumper	A A
R1	VRD-MF2EE391J	390 ohms,1/4W	A A
R4	VRD-MF2EE824J	820 kohms,1/4W	A A

WF-939Z

REF.NO.	PART NO.	DESCRIPTION	CODE
R5	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R6	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R7	VRD-MF2EE272J	2.7 kohms,1/4W	A A
R8	VRD-MF2EE680J	68 ohms,1/4W	A A
R9	VRD-MF2EE471J	470 ohms,1/4W	A A
R10	VRD-MF2EE152J	1.5 kohms,1/4W	A A
R11	VRD-MF2EE471J	470 ohms,1/4W	A A
R12	VRD-MF2EE331J	330 ohms,1/4W	A A
R41	VRD-MF2EE102J	1 kohm,1/4W	A A
R42	VRD-MF2EE103J	10 kohm,1/4W	A A
R43	VRD-MF2EE224J	220 kohms,1/4W	A A
R44	VRD-MF2EE471J	470 ohms,1/4W	A A
R45,46	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R47,48	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R61	VRD-MF2EE101J	100 ohm,1/4W	A A
R62	VRD-MF2EE330J	33 ohms,1/4W	A A
R65	VRD-MF2EE221J	220 ohms,1/4W	A A
R99	VRD-ST2CD272J	2.7 kohms,1/6W	A A
R101,102	VRD-MF2EE102J	1 kohm,1/4W	A A
R103,104	VRD-MF2EE101J	100 ohm,1/4W	A A
R105	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R106	VRD-ST2CD822J	8.2 kohms,1/6W	A A
R107,108	VRD-MF2EE682J	6.8 kohms,1/4W	A A
R109,110	VRD-MF2EE184J	180 kohms,1/4W	A A
R111,112	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R113,114	VRD-ST2CD104J	100 kohm,1/6W	A A
R115,116	VRD-MF2EE103J	10 kohm,1/4W	A A
R121	VRD-ST2CD151J	150 ohms,1/6W	A A
R123	VRD-ST2CD822J	8.2 kohms,1/6W	A A
R124	VRD-MF2EE103J	10 kohm,1/4W	A A
R151,152	VRD-MF2EE102J	1 kohm,1/4W	A A
R153,154	VRD-MF2EE820J	82 ohms,1/4W	A A
R155,156	VRD-MF2EE682J	6.8 kohms,1/4W	A A
R157,158	VRD-MF2EE184J	180 kohms,1/4W	A A
R163,164	VRD-MF2EE470J	47 ohms,1/4W	A A
R165	VRD-ST2CD103J	10 kohm,1/6W	A A
R166	VRD-MF2EE103J	10 kohm,1/4W	A A
R167	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R168	VRD-ST2CD332J	3.3 kohms,1/6W	A A
R171	VRD-ST2CD151J	150 ohms,1/6W	A A
R173	VRD-ST2CD822J	8.2 kohms,1/6W	A A
R174	VRD-ST2CD103J	10 kohm,1/6W	A A
R175	VRD-ST2CD102J	1 kohm,1/6W	A A
R201,202	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R203,204	VRD-MF2EE563J	56 kohms,1/4W	A A
R205,206	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R207,208	VRD-MF2EE154J	150 kohms,1/4W	A A
R209,210	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R211,212	VRD-MF2EE103J	10 kohm,1/4W	A A
R213,214	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R215,216	VRD-ST2CD563J	56 kohms,1/6W	A A
R217,218	VRD-MF2EE153J	15 kohms,1/4W	A A
R219	VRD-ST2CD561J	560 ohms,1/6W	A A
R221,222	VRD-MF2EE563J	56 kohms,1/4W	A A
R251,252	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R253,254	VRD-MF2EE100J	10 ohm,1/4W	A A
R255,256	VRD-MF2EE684J	680 kohms,1/4W	A A
R257,258	VRD-MF2EE220J	22 ohms,1/4W	A A
R259,260	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R261,262	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R263,264	VRD-MF2EE153J	15 kohms,1/4W	A A
R265,266	VRD-MF2EE102J	1 kohm,1/4W	A A
R267	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R301,302	VRD-MF2EE103J	10 kohm,1/4W	A A
R303,304	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R305,306	VRD-MF2EE561J	560 ohms,1/4W	A A
R307,308	VRD-MF2EE473J	47 kohms,1/4W	A A
R309,310	VRD-MF2EE153J	15 kohms,1/4W	A A
R311,312	VRD-MF2EE272J	2.7 kohms,1/4W	A A
R315,316	VRD-MF2EE331J	330 ohms,1/4W	A A
R318	VRD-MF2EE684J	680 kohms,1/4W	A A
R319	VRD-ST2CD473J	47 kohms,1/6W	A A
R331,332	VRD-MF2EE821J	820 ohms,1/4W	A A
R333,334	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R335	VRD-MF2EE101J	100 ohm,1/4W	A A
R341	VRD-MF2EE104J	100 kohm,1/4W	A A
R351	VRD-MF2EE103J	10 kohm,1/4W	A A
R352	VRD-MF2EE563J	56 kohms,1/4W	A A
R353	VRD-MF2EE4R7J	4.7 ohms,1/4W	A A
R355	VRD-MF2EE151J	150 ohms,1/4W	A A
R356	VRD-MF2EE181J	180 ohms,1/4W	A A
R371,372	VRD-MF2EE123J	12 kohms,1/4W	A A
R373,374	VRD-MF2EE154J	150 kohms,1/4W	A A
R375,376	VRD-MF2EE473J	47 kohms,1/4W	A A
R377,378	VRD-MF2EE271J	270 ohms,1/4W	A A
R379,380	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R381,382	VRD-ST2CD123J	12 kohms,1/6W	A A
R383,384	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R387	VRD-MF2EE221J	220 ohms,1/4W	A A
R393,394	VRD-MF2EE102J	1 kohm,1/4W	A A
R395	VRD-ST2CD103J	10 kohm,1/6W	A A
R396	VRD-MF2EE684J	680 kohms,1/4W	A A
R397	VRD-ST2CD124J	120 kohms,1/6W	A A
R398	VRD-MF2EE103J	10 kohm,1/4W	A A
R399	VRD-ST2CD103J	10 kohm,1/6W	A A
R401	VRD-MF2EE474J	470 kohms,1/4W	A A
R402	VRD-MF2EE561J	560 ohms,1/4W	A A
R403	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R404	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R405	VRD-MF2EE393J	39 kohms,1/4W	A A
R406	VRD-ST2CD102J	1 kohm,1/6W	A A
R407	VRD-MF2EE104J	100 kohm,1/4W	A A
R408	VRD-MF2EE102J	1 kohm,1/4W	A A
R409	VRD-MF2EE680J	68 ohms,1/4W	A A
R410,411	VRD-MF2EE333J	33 kohms,1/4W	A A
R412	VRD-MF2EE103J	10 kohm,1/4W	A A
R413	VRD-MF2EE274J	270 kohms,1/4W	A A
R414	VRD-MF2EE103J	10 kohm,1/4W	A A
R415	VRD-MF2EE184J	180 kohms,1/4W	A A
R416	VRD-MF2EE103J	10 kohm,1/4W	A A
R417	VRD-MF2EE103J	10 kohm,1/4W	A A
R418	VRD-MF2EE104J	100 kohm,1/4W	A A
R419	VRD-MF2EE393J	39 kohms,1/4W	A A
R420	VRD-MF2EE223J	22 kohms,1/4W	A A
R421	VRD-MF2EE103J	10 kohm,1/4W	A A
R422	VRD-MF2EE102J	1 kohm,1/4W	A A
R423	VRD-MF2EE392J	3.9 kohms,1/4W	A A
R424	VRD-MF2EE823J	82 kohms,1/4W	A A
R425	VRD-MF2EE223J	22 kohms,1/4W	A A
R426	VRD-MF2EE103J	10 kohm,1/4W	A A
R427	VRD-MF2EE334J	330 kohms,1/4W	A A
R428	VRD-MF2EE274J	270 kohms,1/4W	A A
R429	VRD-MF2EE103J	10 kohm,1/4W	A A
R430	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R431	VRD-MF2EE153J	15 kohms,1/4W	A A
R432	VRD-MF2EE274J	270 kohms,1/4W	A A
R433	VRD-MF2EE394J	390 kohms,1/4W	A A
R434	VRD-MF2EE102J	1 kohm,1/4W	A A
R435	VRD-MF2EE224J	220 kohms,1/4W	A A
R436	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R437	VRD-ST2CD272J	2.7 kohms,1/6W	A A
R438	VRD-MF2EE223J	22 kohms,1/4W	A A
R439	VRD-MF2EE102J	1 kohm,1/4W	A A
R440	VRD-MF2EE152J	1.5 kohms,1/4W	A A
R441	VRD-MF2EE102J	1 kohm,1/4W	A A
R442	VRD-MF2EE223J	22 kohms,1/4W	A A
R443	VRD-MF2EE224J	220 kohms,1/4W	A A
R444	VRD-MF2EE102J	1 kohm,1/4W	A A
R449	VRD-ST2CD473J	47 kohms,1/6W	A A
R499	VRD-ST2CD151J	150 ohms,1/6W	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
R501,502	VRD-ST2CD332J	3.3 kohms,1/6W	A A
R503,504	VRD-MF2EE124J	120 kohms,1/4W	A A
R505,506	VRD-MF2EE471J	470 ohms,1/4W	A A
R507,508	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R509,510	VRD-MF2EE102J	1 kohm,1/4W	A A
R511,512	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R513,514	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R520	VRD-ST2CD271J	270 ohms,1/6W	A A
R601	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R602	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R603	VRD-MF2EE394J	390 kohms,1/4W	A A
R604	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R606	VRD-MF2EE221J	220 ohms,1/4W	A A
R607	VRD-MF2EE331J	330 ohms,1/4W	A A
R608	VRD-MF2EE683J	68 kohms,1/4W	A A
R609,610	VRD-MF2EE273J	27 kohms,1/4W	A A
R611	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R612	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R613	VRD-MF2EE394J	390 kohms,1/4W	A A
R614	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R616	VRD-MF2EE221J	220 ohms,1/4W	A A
R617,618	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R619	VRD-ST2CD121J	120 ohms,1/6W	A A
R621	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R622	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R623	VRD-MF2EE394J	390 kohms,1/4W	A A
R624	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R626	VRD-MF2EE221J	220 ohms,1/4W	A A
R629	VRD-MF2EE224J	220 kohms,1/4W	A A
R631	VRD-ST2CD182J	1.8 kohms,1/6W	A A
R632	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R633	VRD-ST2CD394J	390 kohms,1/6W	A A
R634	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R636	VRD-MF2EE221J	220 ohms,1/4W	A A
R639	VRD-ST2CD121J	120 ohms,1/6W	A A
R641	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R642	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R643	VRD-MF2EE394J	390 kohms,1/4W	A A
R644	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R646	VRD-MF2EE221J	220 ohms,1/4W	A A
R651	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R652	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R653	VRD-MF2EE394J	390 kohms,1/4W	A A
R654	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R656	VRD-MF2EE221J	220 ohms,1/4W	A A
R659	VRD-ST2CD121J	120 ohms,1/6W	A A
R661	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R662	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R663	VRD-MF2EE394J	390 kohms,1/4W	A A
R664	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R666	VRD-MF2EE221J	220 ohms,1/4W	A A
R671	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R672	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R673	VRD-MF2EE394J	390 kohms,1/4W	A A
R674	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R676	VRD-MF2EE221J	220 ohms,1/4W	A A
R679	VRD-ST2CD121J	120 ohms,1/6W	A A
R681	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R682	VRD-ST2CD222J	2.2 kohms,1/6W	A A
R683	VRD-MF2EE394J	390 kohms,1/4W	A A
R684	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R686	VRD-MF2EE221J	220 ohms,1/4W	A A
R691,692	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R693	VRD-MF2EE394J	390 kohms,1/4W	A A
R694	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R696	VRD-MF2EE221J	220 ohms,1/4W	A A
R699	VRD-ST2CD121J	120 ohms,1/6W	A A
R711,712	VRD-MF2EE221J	220 ohms,1/4W	A A
R713,714	VRD-MF2EE471J	470 ohms,1/4W	A A
⚠R715	VRG-ST2EF100J	10 ohm,1/4W,Fusible	A B
⚠R716	VRG-ST2EG1R0J	1 ohm,1/4W,Fusible	A B
R720	VRD-MF2EE103J	10 kohm,1/4W	A A
R721	VRD-ST2CD472J	4.7 kohms,1/6W	A A
R751,752	VRD-MF2EE104J	100 kohm,1/4W	A A
R753	VRD-ST2CD103J	10 kohm,1/6W	A A
R754	VRD-MF2EE103J	10 kohm,1/4W	A A
R755,756	VRD-MF2EE103J	10 kohm,1/4W	A A
R801,802	VRD-ST2CD331J	330 ohms,1/6W	A A
R807~810	VRD-ST2CD181J	180 ohms,1/6W	A A
R811,812	VRD-ST2CD390J	39 ohms,1/6W	A A
⚠R813~816	VRG-ST2ED1R0J	1 ohm,1/4W,Fusible	A B
R817,818	VRD-ST2CD332J	3.3 kohms,1/6W	A A
R831,832	VRD-ST2CD221J	220 ohms,1/6W	A A
R840	VRD-ST2CD821J	820 ohms,1/6W	A A
R841	VRD-ST2CD330J	33 ohms,1/6W	A A
R851,852	VRD-MF2EE103J	10 kohm,1/4W	A A
R853,854	VRD-MF2EE274J	270 kohms,1/4W	A A
R855,856	VRD-MF2EE103J	10 kohm,1/4W	A A
⚠R857,858	VRG-ST2ED4R7J	4.7 ohms,1/4W,Fusible	A B
R859	VRD-MF2EE103J	10 kohm,1/4W	A A
R860	VRD-MF2EE223J	22 kohms,1/4W	A A
R861	VRD-MF2EE103J	10 kohm,1/4W	A A
R863,864	VRD-MF2EE104J	100 kohm,1/4W	A A
R865,866	VRD-MF2EE563J	56 kohms,1/4W	A A
R867,868	VRD-MF2EE221J	220 ohms,1/4W	A A
R869	VRD-MF2EE223J	22 kohms,1/4W	A A
R870	VRD-MF2EE223J	22 kohms,1/4W	A A
R871,872	VRD-MF2EE103J	10 kohm,1/4W	A A
R873,874	VRD-MF2EE334J	330 kohms,1/4W	A A
R875,876	VRD-MF2EE563J	56 kohms,1/4W	A A
R877	VRD-MF2EE104J	100 kohm,1/4W	A A
R878	VRD-MF2EE223J	22 kohms,1/4W	A A
R879	VRD-MF2EE563J	56 kohms,1/4W	A A
R880	VRD-ST2CD563J	56 kohms,1/6W	A A
R881	VRD-MF2EE563J	56 kohms,1/4W	A A
R883,884	VRD-MF2EE103J	10 kohm,1/4W	A A
R885	VRD-ST2CD102J	1 kohm,1/6W	A A
R887,888	VRD-MF2EE102J	1 kohm,1/4W	A A
R899	VRD-ST2CD103J	1 kohm,1/6W	A A
R998	VRD-ST2CD272J	2.7 kohms,1/6W	A A

OTHER CIRCUITRY PARTS

CNP1	QCNCM656FAFZZ	Socket,Wire Trap,6Pin	A B
CNP2	QCNCM583BAFZZ	Plug,2Pin	A A
CNP3	QCNCM583BAFZZ	Plug,2Pin	A A
CNP101	QCNCM683DAFZZ	Plug,4Pin	A A
CNP102	QCNCM683FAFZZ	Plug,6Pin	A B
CNP601	QCNCM591KAFZZ	Plug,10Pin	A C
CNP602	QCNCM588GAFZZ	Plug,7Pin	A B
CNP751	QCNCM692EAFZZ	Plug,5Pin	A B
CNP752	QCNCM095BAFZZ	Plug,2Pin	A B
CNP801	QCNCM656EAFZZ	Socket,Wire Trap,5Pin	A B
CNP802	QCNCM680DAFZZ	Socket,Wire Trap,4Pin	A C
⚠CNP803	QCNCM700EAFZZ	Socket,5Pin	A D
CNP804	QCNCM462BAFZZ	Plug,2Pin	A A
CNS2	QCNWN0414AFZZ	Connector Assembly,2Pin	A C
CNS3	QCNWN0405AFZZ	Connector Assembly,2Pin	A C
CNS101	QCNWN0409AFZZ	Connector Assembly,4Pin	A G
CNS102	QCNWN0411AFZZ	Connector Assembly,6Pin	A K
CNS601	QCNWN0410AFZZ	Connector Assembly,10Pin	A F
CNS602	QCNWN0412AFZZ	Connector Assembly,7Pin	A F
CNS751	QCNCW570EAFZZ	Connector Assembly,5Pin	A C
CNS752	QCNWN0417AFZZ	Connector Assembly,2Pin	A C
⚠CNS803	————	Socket,Part of T701	—
CNS804	QCNWN0415AFZZ	Connector Assembly,2Pin	A E
CORE1	RCŌRF0053AFZZ	Core,Bead	A B
⚠F801	QFS-C312GAFNi	Fuse,3.15A	A D
J201	QJAKZ0197AFZZ	Socket,Phono/Line In/CD	A C
J202,203	QJAKE0111AFZZ	Jack,Mic	A D
J301	QJAKZ0197AFZZ	Socket,Line Out	A C
J801	QJAKJ0106AFZZ	Jack,Headphones	A F
J802	QTANZ0468AFZZ	Terminal,External Speaker	A E
LCD751	RV-LX0021AFZZ	LCD	A M
M1,2	RMŌTV0236AF01	Motor,with Pulley	A U
RLY801	RRLYZ0113AFZZ	Relay	A H
⚠SO801	QSŌCE0561AFZZ	AC Power Supply Socket with AC/DC Selector Switch	A H
SOL1	RPLU-0195AFZZ	Solenoid	A F
SP1,2	VSPSQ21WB068A	Speaker,Woofer	A Y
SP3,4	VSP0050TB926A	Speaker,Tweeter	A L
SP5,6	RALMB0057AFZZ	Speaker,Super Tweeter	A C
SW1	QSW-B0181AFZZ	Switch,Lever Type	A M
SW2	————	Switch, Part of SW11~15	—
SW3	QSW-S0442AFZZ	Switch,Slide Type	A E
SW4~6,8	QSW-P0694AFZZ	Switch,Push Type, 4-Segment	A L
SW11~15	QSW-P0693AFZZ	Switch,Push Type, 7-Segment	A Q
SW16	QSW-S0536AFZZ	Switch,Slide Type	A E
SW17	QSW-S0267AFZZ	Switch,Slide Type	A D
SW18	————	Switch, Part of SW11~15	—
SW19~23	QSW-K0060AFZZ	Switch,Push Type	A B
SW29,30	QSW-K0060AFZZ	Switch,Push Type	A B
SW851,852	QSW-F0216AFZZ	Switch,Leaf Type	A B
SW853~855	QSW-F0197AFZZ	Switch,Leaf Type	A C
SW857	QSW-F0214AFZZ	Switch,Leaf Type	A C
TE201	QTANN0162AFZZ	Terminal,Earse	A B

MECHANICAL PARTS

2	LANGF0970AFFW	Bracket,Flywheel	A D
4	LPLTM0173AFFW	Plate,Cam Maintain	A B
5	LBSHZ0086AFZZ	Cushion,Motor	A A
6	LBSHZ0087AFZZ	Rubber,Lead Disposition	A A
7	LCHSM0573AFZZ	Main Chassis	—
8	LDAiH0066AFZZ	Bracket,Head	A D
9	LHLDW1075AFZZ	Nylon Band,60㎜	A A
10	LHLDW1112AFZZ	Tape,6×30㎜	A A
11	LHLDW3085AFZZ	Wire Holder	A A
12	LANGT1463AFFW	Bracket,Button	A D
13	LHLDZ3081AFFD	Holder,Clutch Gear Felt	A A
14	LHLDZ3082AFZZ	Holder,Metal	A A
15	LPiNZ0062AFFJ	Pin,Latch Plate	A B
16	LPiNZ0070AFFD	Rod,Reverse	A B
17	LPiNZ0071AFFD	Rod,Auto Stop	A B
18	LPLTM0166AFZZ	Head Base	A C
19	LPLTM0167AFZZ	Plate,Head	A E
20	LPLTM0168AFZZ	Plate,Over Stroke	A C
21	LPLTM0169AFZZ	Plate,Reverse	A C
23	LPLTM0172AFZZ	Plate,Lever Press	A E
24	NSFTT0408AFFW	Shaft,Button	A G
25	LRTNP0058AFZZ	Stopper	A A
26	LRTNP0059AF00	Retaining Ring	A A
27	LSLVM0217AFFW	Sleeve,Play Idler	A A
28	MARMM0073AFFW	Arm,Erase Prevention, Tape2 Only	A B
29	MARMM0074AFFW	Arm,Play Selector	A A
30	MARMM0075AFFW	Arm,Stand-by,Tape1 Only	A A
31	MARMP0033AF00	Arm,Reverse Cam Lock	A A
32	MARMP0034AF00	Arm,Reverse Cam	A B
33	MCAMP0075AF00	Cam,Play	A B
34	MCAMP0076AF00	Cam,Reverse	A B
35	MCAMP0077AF00	Cam,End	A B
36	MLEVF1805AFFW	Lever,Pause Back	A B
37	MLEVF1812AFFW	Lever,Fast-forward/Rewind Interlocking	A B
38	MLEVF1813AFFW	Lever,Main Lock,Tape2	A B
38	MLEVF1888AFFW	Lever,Main Lock,Tape1	A B
39	MLEVF1814AFFW	Lever,Switch	A B
40	MLEVF1815AFFW	Lever,Prevention,Tape2 Only	A A
41	MLEVF1816AFFW	Lever,APSS Lock,Tape2	A B
41	MLEVF1816AFZZ	Lever,APSS Lock,Tape1	A C
42	MLEVF1818AFFW	Lever,APSS Lock Release	A A
43	MLEVF1819AFFW	Lever,Erase Prevent Mortion,Tape2 Only	A A
44	MLEVF1820AFFW	Lever,Pause Mortion	A A
45	MLEVF1821AFFW	Lever,Eject	A A
46	MLEVF1822AFFW	Lever,Timing Cam	A A
47	MLEVF1838AFFW	Lever,Record	A B
48	MLEVF1839AFFW	Lever,Playback	A B
49	MLEVF1840AFFW	Lever,Rewind	A B
50	MLEVF1841AFFW	Lever,Stop	A A
51	MLEVF1842AFZZ	Lever,Pause	A C
52	MLEVF1843AFFW	Lever,Fast-forward	A B
53	MLEVP0502AFZZ	Lever,Pause Lock	A B
54	MLEVP0637AF00	Lever,Sensor	A A
55	MLEVP0638AF00	Lever,Brake Release	A A
56	MLEVP0639AF00	Lever,Latch Release	A A
57	MLEVP0640AF00	Lever,Erase Prevention, Tape2 Only	A A
58	MLEVP0641AF00	Lever,Play Cam Lock	A B
59	MLEVP0642AF00	Lever,Timing	A A
60	MLEVP0643AF00	Lever,Head Pack	A A
61	MLEVP0644AF00	Lever,Fast-forward/ Rewing Release	A A
62	MLEVP0645AF00	Lever,End Selector	A A
63	MLEVP0646AF00	Lever,Direction Change	A A
64	MLEVP0647AF00	Lever,Record Releasege	A A
65	MLEVP0648AF00	Lever,Switch Operation	A B
66	MLEVP0650AF00	Lever,APSS Switch,Tape1 Only	A A
67	MLEVP0652AF00	Lever,Mode Mortion	A A
68	MLEVP0653AF00	Lever,Stop Killer	A A
69	MLEVP0670AFZZ	Lever,Pause Stop,Tape2 Only	A A
70	MLEVP0649AF00	Lever,Holder Lock	A B
75	MSPRC0449AFFJ	Spring,Latch Lock	A A
76	MSPRC0458AFFJ	Spring,Pause Lock Lever	A A
77	MSPRC0575AFFJ	Spring,Clutch Gear	A A
78	MSPRC0578AFFJ	Spring,Tape Guide	A A
79	MSPRC0579AFFJ	Spring,Azimuth	A A
80	MSPRC0580AFFJ	Spring,Back Tension	A A
81	MSPRC0581AFFJ	Spring,Back Release Lever	A A
82	MSPRC0582AFFJ	Spring,Pause Lever	A A
83	MSPRC0583AFFJ	Spring,Fast-forward Lever	A A
84	MSPRD0689AFFJ	Spring,Over Stroke Return	A A
85	MSPRD0690AFFJ	Spring,Play Cam Lock Lever	A A
86	MSPRD0691AFFJ	Spring,Stop/Rewind Return	A A
87	MSPRD0692AFFJ	Spring,Head Selector	A A
88	MSPRD0693AFFJ	Spring,Reverse Cam Lock Arm	A A
89	MSPRD0694AFFJ	Spring,Direction Change Drive	A A
90	MSPRD0696AFFJ	Spring,Pause Killer	A A
92	MSPRD0698AFFJ	Spring,Play Selector Arm	A A
93	MSPRD0699AFFJ	Spring,APSS Switch Lever, Tape1 Only	A A
94	MSPRD0700AFFJ	Spring,Forward Pinch Roller	A A
95	MSPRD0701AFFJ	Spring,Reverse Pinch Roller	A A
96	MSPRD0722AFFJ	Spring,Head Prevention, Tape2 Only	A A
97	MSPRD0723AFFJ	Spring,Reverse Stop	A A

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REF.NO.	PART NO.	DESCRIPTION	CODE
98	MSPRP0370AFFW	Plate Spring,Cassette Retaining	A A
99	MSPRP0430AFFJ	Plate Spring,Head Plate	A A
100	MSPRT1196AFFJ	Spring,Main Lock Lever	A A
101	MSPRT1197AFFJ	Spring,Head Plate	A A
102	MSPRT1198AFFJ	Spring,End Selector	A A
103	MSPRT1205AFFJ	Spring,Erase Prevention, Tape2 Only	A A
104	NBALS0006AGFJ	Steel Ball,ϕ2mm	A A
105	NBALS0056AFZZ	Steel Ball,ϕ1.5mm	A A
106	NBLTH0108AF00	Belt,Flywheel	A C
107	NBLTK0352AF00	Belt,Turntable	A B
108	NBRGC0116AFZZ	Capstan Metal,Forward	A B
109	NBRGC0117AFZZ	Capstan Metal,Reverse	A B
110	NDAiR0194AFZZ	Turntable,Take-up	A E
111	NDAiR0195AFZZ	Turntable,Supply	A C
112	NFLYC0136AFZZ	Flywheel,Reverse	A H
113	NFLYC0135AFZZ	Flywheel,Forward	A F
114	NGERH0186AFZZ	Gear,Fast-forward/Rewind	A E
115	NGERH0187AF00	Gear,Play	A A
116	NGERH0188AF00	Gear,Reduction	A A
117	NGERH0189AF00	Gear,Cluth	A A
118	NGERH0190AF00	Gear,Headh	A A
119	NiDR-0091AFZZ	Idler,Play	A D
121	NPLYR0116AFZZ	Pully,Flywheel Belt	A C
122	NRōLY0075AFZZ	Pinch Roller,Forward	A D
123	NRōLY0076AFZZ	Pinch Roller,Reverse	A D
124	PCUSF0033AF00	Felt,Cluth Gear	A A
125	PGiDM0129AF00	Guide,Tape	A A
126	RHEDF0100AFZZ	Head,Playback	A N
127	RHEDK0052AFZZ	Head,Record/Playback/ Erase	A V
129	MSPRT1216AFFJ	Spring,Playback Lever	A A
130A	JKNBR0476AFSA	Button,Auto Reverse Play, Tape1	A E
130B	JKNBR0477AFSA	Button,Record,Tape2	A E
131	JKNBR0478AFSA	Button,Play	A E
132A	JKNBR0480AFSA	Button,Fast-forward	A E
132B	JKNBR0479AFSA	Button,Rewind	A E
133	JKNBR0481AFSA	Button,Stop	A E
134	JKNBR0482AFSA	Button,Pause	A E
135	MSPRT1224AFFJ	Spring,APSS Lock	A A
136	MSPRD0697AFFJ	Spring,Pause Back	A A
137	LANGT1462AFFW	Bracket,Direction Lever	A B
138	MLEVP0700AFZZ	Lever,Direction Interlocking	A B
140	MLEVP0698AFZZ	Lever,Reverse Mode	A B
141	MSPRT1233AFFJ	Spring,Earth	A A
142	MLEVP0699AFZZ	Lever,Direction	A B
143	LHLDW3056AFZZ	Wire Holder,Tape1 Only	A A
502	LX-BZ0450AFZZ	Screw,ϕ2×6mm	A A
503	LX-BZ0451AFFD	Screw,ϕ2×6mm	A A
504	LX-HZ0143AFFD	Screw,ϕ2×8mm,Tape1 Only	A A
505	LX-WZ1106AFZZ	Washer,Sensor	A A
506	LX-WZ1107AFZZ	Washer,ϕ3.5×ϕ5×0.25mm	A A
507	LX-WZ5018AGZZ	Washer,ϕ2.1×ϕ4×0.25mm	A A
508	LX-WZ9053AFZZ	Washer,ϕ2.4×ϕ5×0.5mm	A A
509	LX-WZ9064AFZZ	Washer,ϕ1.5×ϕ3.8×0.5mm	A A
510	XBPSD14P07000	Screw,ϕ1.4×7mm	A A
511	XHBSD20P04000	Screw,ϕ2×4mm	A A
512	XJBSD20P06000	Screw,ϕ2×6mm	A A
513	XJBSD26P08000	Screw,ϕ2.6×8mm	A A
514	XNESD20-16000	Nut,ϕ2×1.6mm	A A
515	XREUJ15-04000	Stop Ring,E-Type,ϕ1.5×0.4mm	A A
516	XWHJZ21-05040	Washer,ϕ2.1×ϕ4×0.5mm	A A
517	XWHJZ23-05044	Washer,ϕ2.3×ϕ4.4×0.5mm	A A
518	XWHJZ47-02075	Washer,ϕ4.7×ϕ7.5×0.2mm	A A
520	XWHSD21-05065	Washer,ϕ2.1×ϕ6×0.5mm	A A
521	LX-BZ0571AFFD	Screw,ϕ2×4mm	A A
522	XASSF17P03000	Screw,ϕ1.7×3mm	A A
523	XWHNZ26-05047	Washer,ϕ2.6×ϕ4.7×0.5mm	A A
524	XREUJ30-06000	Stop Ring,E-Type,ϕ3×0.6mm	A A
525	XJBSD30P08000	Screw,ϕ3×8mm	A A
526	XWVSD27-03000	Lock Washer,ϕ2.7mm	A A

CABINET PARTS

REF.NO.	PART NO.	DESCRIPTION	CODE
201	CCAB-1540AF01	Front Panel Assembly (BK)	B E
201	CCAB-1540AF03	Front Panel Assembly (S)	B E
201-1	————	Front Panel (BK)	—
201-1	————	Front Panel (S)	—
201-2	HBDGB1001GESA	Badge,SHARP	A C
201-3	HDALM0470AFSA	Dial Scale	A P
201-4	HDECA0635AFSA	Decoration Plate,Top	A K
201-5	HiNDM1660AFSA	Indication Plate, Switch(BK)	A G
201-5	HiNDM1660AFSB	Indication Plate,Switch(S)	A G
201-6	HiNDM1661AFSA	Indication Plate,Graphic Equalizer(BK)	A N
201-6	HiNDM1661AFSB	Indication Plate,Graphic Equalizer(S)	A N
201-7	HiNDM1662AFSA	Indication Plate,Jack(BK)	A E
201-7	HiNDM1662AFSB	Indication Plate,Jack(S)	A E
201-8	HiNDM1663AFSA	Indication Plate, Mechanism(BK)	A N
201-8	HiNDM1663AFSB	Indication Plate, Mechanism(S)	A N
201-9	HiNDM1664AFSA	Indication Plate,Mode(BK)	A D
201-9	HiNDM1664AFSB	Indication Plate,Mode(S)	A D
201-10	PCōVM9077AF00	Felt,Knob Cover	A B
•201-11	TLABZ0645AFZZ	Mirror Label	A A
202	CCAB-2158AF01	Rear Cabinet Assembly (BK)	A X
202	CCAB-2158AF03	Rear Cabinet Assembly (S)	A X
202-1	————	Rear Cabinet (BK)	—
202-1	————	Rear Cabinet (S)	—
202-2	PSLDM7161AFZZ	Shield Plate	A C
•202-3	QTANB9127AFFN	Terminal,Battery +	A C
203	CSPRT1029AF13	Dial Cord Assembly	A C
204	GCōVH1179AFSE	Cover,AC Power Supply Socket(S)	A B
204	GCōVH1179AFSJ	Cover,AC Power Supply Socket(BK)	A B
205	GFTA-0066AFSA	Cassette Holder Assembly, Tape1 (BK)	A R
205	GFTA-0066AFSB	Cassette Holder Assembly, Tape1 (S)	A R
205-1	————	Cassette Holder(BK)	—
205-1	————	Cassette Holder(S)	—
205-2	HiNDP1641AFSA	Indication Plate,Tape1	A C
205-3	HPNLH1153AFSA	Plate,Transparent(BK)	A K
205-3	HPNLH1153AFSB	Plate,Transparent(S)	A K
205-4	MSPRD0788AFFJ	Spring,Cassette Press	A A
205-5	PGiDM0130AFSA	Gaide,Cassette,Left	A B
•205-6	PGiDM0131AFSA	Gaide,Cassette,Right	A B
206	GFTA-0067AFSA	Cassette Holder Assembly, Tape2 (BK)	A R
206	GFTA-0067AFSB	Cassette Holder Assembly, Tape2 (S)	A R
206-1	————	Cassette Holder(BK)	—
206-1	————	Cassette Holder(S)	—
206-2	HiNDP1642AFSA	Indication Plate,Tape2	A C
206-3	HPNLH1154AFSA	Plate,Transparent(BK)	A K
206-3	HPNLH1154AFSB	Plate,Transparent(S)	A K
206-4	MSPRD0788AFFJ	Spring,Cassette Press	A A
206-5	PGiDM0130AFSA	Gaide,Cassette,Left	A B
•206-6	PGiDM0131AFSA	Gaide,Cassette,Right	A B
207	GFTAB1132AFSF	Lid,Battery Compartment(BK)	A F
207	GFTAB1132AFSG	Lid,Battery Compartment(S)	A F
208	HiNDP1627AFSA	Indication Plate,Spectrum Analyzer	A G
209	HPNLH1155AFSA	Window,Spectrum Analyzer	A F
210	HSSND0394AFSA	Pointer,Dial	A C
211	JHNDG1097AFSC	Handle(S)	A R
211	JHNDG1097AFSE	Handle(BK)	A R
212	JKNBK0282AFSB	Knob,Band Selector	A B
213	JKNBK0306AFSD	Knob,Fine Tuning	A C
214	JKNBM0547AFSJ	Button,Push,Red	A B
215	JKNBM0547AFSK	Button,Push,Gray	A B
216	JKNBM0696AFSA	Button,Clock	A D
217	JKNBM0697AFSA	Button,APLD/APPS	A C
218	JKNBN0576AFSA	Knob,with Shaft,Tuning	A C
219	JKNBP0275AFSA	Knob,Volume,Left	A D
220	JKNBP0276AFSA	Knob,Volume,Right	A D
221	JKNBR0475AFSA	Button,Dubbing Start	A E
222	JKNBZ0475AFSC	Knob,Reverse Mode	A B
223	JKNBZ0476AFSC	Knob,Direction	A B
224	KCōUB0198AFZZ	Tape Counter	A G
225	LANGQ1003AFZZ	Bracket,Jack	A E
226	LANGQ1004AFZZ	Bracket,Timer PWB	A C
227	LHLDF1364AFZZ	Frame,Tuner	A H
228	LHLDF1365AFZZ	Frame,Main	A H
229	LHLDL1060AF00	Holder,Handle	A B
230	LHLDP1096AFZZ	Holder,LED	A D
231	LHLDZ1320AFSA	Holder,Knob	A E
232	LSLVP0007AFZZ	Sleeve,Heat Sink	A B
233	LSTPZ0056AFZZ	Stopper,Tuner Frame	A B
234	MLEVF1886AFZZ	Lever,Dubbing Start	A E
235	MLEVF1887AFZZ	Lever,Record/Playback	A C
236	MLiFP0034AFZZ	Damper	A C
237	MSPRC0509AFFW	Spring,Battery,+	A B
238	MSPRC0510AFFW	Spring,Battery,-	A B
239	MSPRC0513AFFJ	Spring,Battery,+,-	A C
240	MSPRC0620AFFJ	Spring,Dubbing Start	A A
241	MSPRC0624AFFJ	Spring,Battery,-	A B
242	MSPRC0630AFFJ	Spring,Earse	A A
243	MSPRD0671AFFJ	Spring,Record/Playback Lever	A B
244	MSPRD0760AFFJ	Spring,Cassette Holder	A A
245	NBLTK0369AFZZ	Belt,Tape Counter	A B
246	NDRM-0200AFZZ	Drum	A C
247	NPLYB0051AFZZ	Pulley,ϕ7mm	A A
248	NPLYB0060AFZZ	Pulley,ϕ10mm	A B
249	NPLYB0083AFZZ	Pulley,ϕ13mm	A B
250	PCōVP9173AFZZ	Cover,Power Supply	A D
251	PCUSU0309AFZZ	Cushion,Battery	A A
252	PRDAR0454AFFW	Heat Sink	A K
253	PRDAR0455AFFW	Heat Sink	A C
254	PSLDM3411AFZZ	Shield Plate,Main PWB	A D
255	PSLDM9106AFZZ	Shield Plate,Graphic Equalizer	A D
256	PSPAG0143AF00	Spacer,LCD	A B
257	QANTR0136AFZZ	Rod Antenna	A M
258	QFSHD2051AFZZ	Fuse Holder	A A
260	GLEGG0085AF00	Leg	A B
261	PFLT-0739AF00	Felt,15×10×0.5mm	A A
262	PSPAi0337AFZZ	Fiber,10×5×1mm	A A
263	PGUMS0411AF00	Rubber,50×7×4mm	A B
264	PSPAZ0234AFZZ	Felt,60×7×0.5mm	A A
601	LX-BZ0286AFFF	Screw,ϕ2×12mm	A A
602	LX-JZ0078AFFD	Screw,ϕ3×7.5mm	A A
603	LX-CZ0011AFFD	Screw,ϕ3×65mm	A A
604	LX-CZ0062AFFD	Screw,ϕ3×11mm	A A
605	LX-JZ0004AFFD	Screw,ϕ3×14mm	A A
606	XBBSD20P05000	Screw,ϕ2×5mm	A A
607	XBPSC30P14J00	Screw,ϕ3×14mm	A A
608	XBPSD26P08J00	Screw,ϕ2.6×8mm	A A
609	XCBSD26P08000	Screw,ϕ2.6×8mm	A A
610	XCBSD30P10000	Screw,ϕ3×10mm	A A
611	XCBSD30P12000	Screw,ϕ3×12mm	A A
612	XCBSD30P16000	Screw,ϕ3×16mm	A A
613	XCTSD40P12000	Screw,ϕ4×12mm	A B
615	XHBSD30P06000	Screw,ϕ3×6mm	A A
616	XHBSD30P10000	Screw,ϕ3×10mm	A A
617	XNEBN20-16000	Nut,ϕ2×1.6mm	A A
618	XWSSJ20-05000	Washer,ϕ2×0.5mm	A A
619	XREUJ30-06070	Stop Ring,E-Type,ϕ3×0.6mm	A A
622	LX-BZ0308AFFD	Screw,ϕ3×6mm	A A
623	XCBSD30P08000	Screw,ϕ3×8mm	A A

SPEAKER BOX PARTS

REF.NO.	PART NO.	DESCRIPTION	CODE
301	CCABB2159AF01	Rear Cabinet,Left (BK)	A Y
301	CCABB2159AF02	Rear Cabinet,Left (S)	A Y
302	CCABB2160AF01	Rear Cabinet,Right (BK)	A Y
302	CCABB2160AF02	Rear Cabinet,Right (S)	A Y
303	GCAB-1541AFSA	Front Panel Assembly (BK)	A W
303	GCAB-1541AFSB	Front Panel Assembly (S)	A W
303-1	————	Front Panel (BK)	—
303-1	————	Front Panel (S)	—
•303-2	HPNC-0232AFSA	Punching Metal,Woofer	A H
305	HDECQ0287AFSA	Grille,Tweeter	A L
306	HPNC-0233AFSA	Punching Metal,Tweeter	A E
307	LANGZ0156AFFW	Bracket,Resonance Prevention	A C
308	LANGZ0160AFFW	Bracket,Resonance Prevention	A D
309	LBSHC0065AFZZ	Bushing,Speaker Cord	A B
310	MLEVP0696AFSA	Lever,Speaker Release, Left(BK)	A B
310	MLEVP0696AFSB	Lever,Speaker Release, Left(S)	A B
311	MLEVP0702AFSA	Lever Speaker Release, Right(BK)	A B
311	MLEVP0702AFSB	Lever Speaker Release, Right(S)	A B
312	PFLT-0405AFZZ	Leg	A A
313	PFLT-0597AF00	Felt	A A
314	PKYU-0085AFZZ	Acoustic Material	A E
315	QCNWG0021AFZZ	Speaker Cord	A G
801	LX-CZ0017AFFD	Screw,ϕ3×25mm	A A
802	LX-CZ0032AFFD	Screw,ϕ6.3×16mm	A A
803	LX-CZ0039AFZZ	Screw,ϕ3×8mm	A A
804	LX-CZ0047AFFD	Screw,ϕ4×8mm	A A

ACCESSORIES/PACKING PARTS

	REF.NO.	PART NO.	DESCRIPTION	CODE
⚠		QACCZ0059AF00	AC Power Supply Cord	A G
⚠		QACCZ0060AF00	AC Power Supply Cord	A K
⚠		QPLGA0253AFZZ	AC Plug Adaptor	A E
		RTPEK0101AFZZ	Cassette Tape	A K
		SPAKA1633AFZZ	Packing Add.,Main Body, Left	A G
		SPAKA1634AFZZ	Packing Add.,Main Body, Right	A G
		SPAKA1635AFZZ	Packing Add.,Speaker,Top	A E
		SPAKA1636AFZZ	Packing Add.,Speaker, Bottom	A E
		SPAKC3990AFZZ	Packing Case(BK)	A P
		SPAKC4057AFZZ	Packing Case(S)	A P
		SPAKP0711AFZZ	Polyethylene Bag,Main Body	A C
		SPAKP0712AFZZ	Polyethylene Bag,Speaker	A B

REF.NO.	PART NO.	DESCRIPTION	CODE
	SSAKA0035AFZZ	Polyethylene Bag, Operation Manual	A A
	TCAUA0309AFZZ	Caution Label,AC	A A
	TGANE1121AFZZ	Warranty Card	A C
	TiNSZ0918AFZZ	Operation Manual	A N
	TLABZ0893AFZZ	Label,Spectrum Analyzer	A D
	TLABZ0951AFZZ	Label,Special Feature	A C
	TLABZ0952AFZZ	Label,Output Power	A C
	UBATU0008AGZZ	Battery,SUM-3E	A C
	UBATU0009AGZZ	Battery,UM-1	A C

REF.NO.	PART NO.	DESCRIPTION	CODE